

Arctic National Wildlife Refuge Visitor Study: The Characteristics, Experiences, and Preferences of Refuge Visitors



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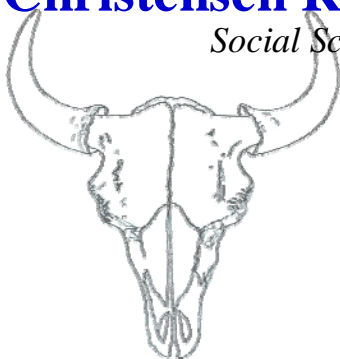
The Aldo Leopold Wilderness Research Institute
and
The Arctic National Wildlife Refuge

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Social Science for Natural Resource Management



Arctic National Wildlife Refuge Map

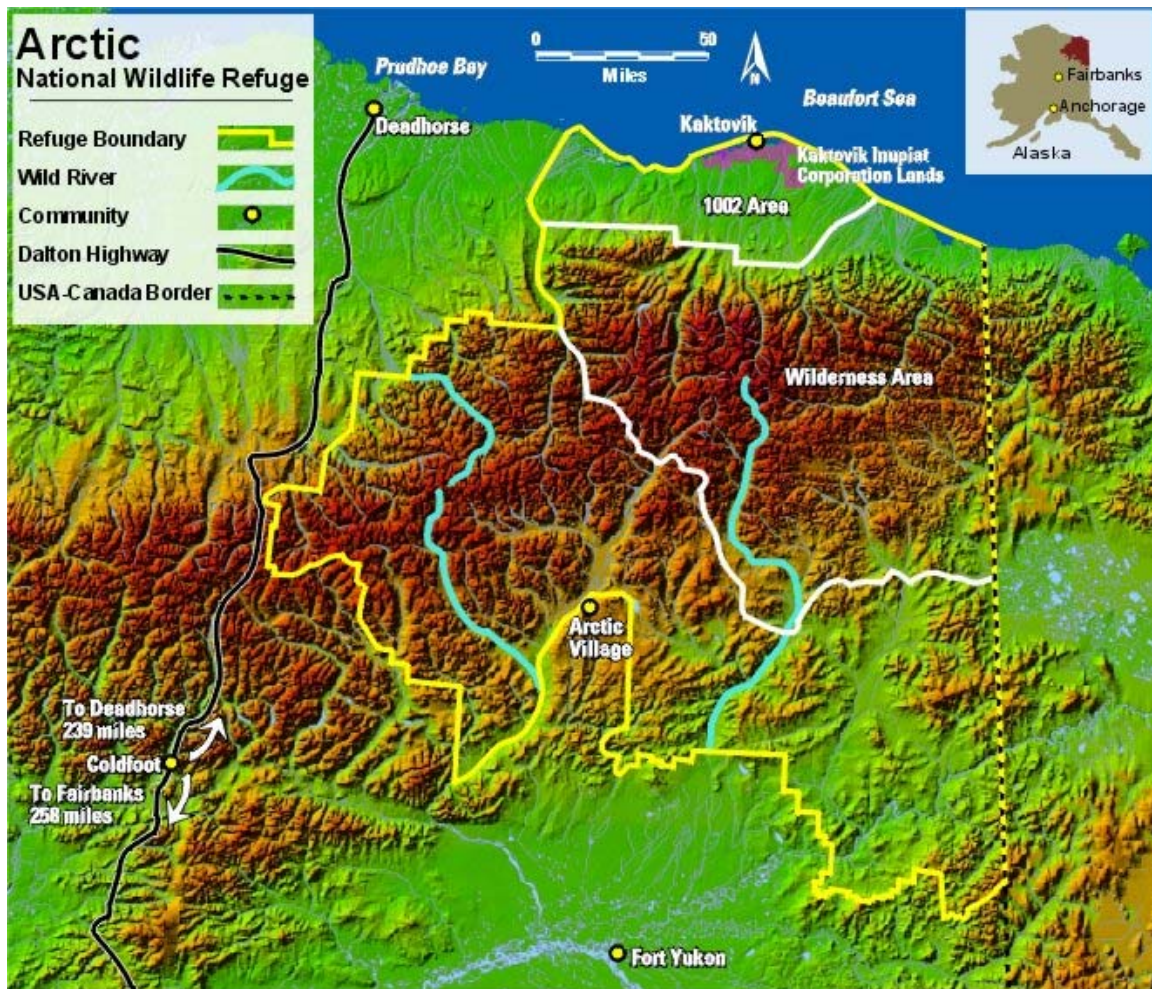


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Arctic Refuge Visitor Study Background

To help meet federal agencies' mandates related to recreation, the Aldo Leopold Wilderness Research Institute periodically facilitates and conducts research to inform managers and the public about visitor use characteristics and public response to potential management actions on federal lands. Agency personnel use the collected information to provide and ensure perpetuation of wilderness-type recreational activities and to ensure that visitor activities do not detract from other Refuge purposes. In 2008, information was collected from a sample of people who visited the Arctic Refuge in an attempt to provide basic baseline information that could be useful in designing a more intensive, broad study of visitor characteristics in the future.

The Arctic National Wildlife Refuge was established in 1960 for the purpose of "preserving unique wildlife, wilderness, and recreation values." Noteworthy is the fact that the Refuge's establishing order specified that two of those three purposes relate directly to the experience of visitors. Subsequent legislation has contributed statutory significance to each of these purposes. In addition, the National Wildlife Refuge System Improvement Act of 1997 emphasized the importance of providing recreational benefits, specifically those related to the purposes of hunting, fishing, wildlife observation, photography, environmental education, and interpretation.

Over the last 47 years the Arctic Refuge has undertaken innumerable biological projects that have been highly successful in enhancing understanding of wildlife and ecological resources. However, this is the first systematic effort to understand the area's wilderness and recreational values, what makes them unique, and how to facilitate preservation and availability to the public. The information will be valuable to inform the Refuge's upcoming Comprehensive Conservation Plan revision, and in the development of its Wilderness Stewardship and Public Use Management Plans.

Study Purpose

The primary purpose of this project is to provide a baseline of understanding of visitors' experiences and perceptions of purposes of the Arctic Refuge to facilitate large and small-scale management decisions that affect the visitor's experience, both directly and indirectly.

Specific Study Objectives

- 1) Understand the range of characteristics of current visitors:
 - identify visitor demographics, frequency of visits, and place of residence;
 - identify trip characteristics, such as activities participated in, area(s) of use, methods of access, and size of groups.
- 2) Describe visitors' relationships with the Refuge:
 - determine their past activity and visitation history;
 - measure perceived importance of Refuge purposes;
 - measure the types and strengths of attachments to the refuge.
- 3) Describe visitors' experiences:
 - describe influences on those experiences;
 - describe the importance of various experience dimensions to the overall quality of visitors' trips;
 - determine which influences affect each experience.
- 4) Evaluate how visitors' experiences at the Refuge are protected, enhanced, or negatively influenced by various environmental, managerial, or social conditions.

Project Application

This research may contribute to the development of three Arctic Refuge planning documents:

- Comprehensive Conservation Plan
- Public Use Management Plan
- Wilderness Stewardship Plan

This research will also be used to further scientific knowledge:

- Advancement of knowledge about visitor relationships to public lands
- Publication of results and new understanding in scientific journals

Examples of how the information may be used:

- A. Decision making about potential visitor management tools, including:
 - development of Leave No Trace strategies;
 - registration/permit/rationing visitor use systems;
 - interpretive messages and themes;
 - types and details of trip information the Refuge might collect and provide;
 - consideration of recreational developments;
 - development of law enforcement strategies;
 - addressing issues related to aircraft over-flights, airstrip impacts, and access;
 - potential uses of helicopters;
 - potential use of new forms of technology by the public and the agency;
 - consideration of the appropriateness of new recreational activities;
 - consideration of potential visitor-subsistence interactions/conflicts;
 - consideration of zoning for different experiences;
 - development of monitoring protocol;
 - identification of other informational needs.
- B. Evaluation of other potential agency actions that may less directly affect visitor perception and experience of the Refuge, for example:
 - consideration of actions or proposals related to maintaining or altering the area's naturalness and wildness
 - use of helicopters for official uses;
 - consideration of the appropriateness of certain research techniques and installations;
 - development and delivery of interpretative messages and themes not specific to visitor use;
 - consideration of proposals to name Refuge features.

Research Methods

A survey research methodology was used to gather study information. A method was designed to describe the experiences and perceptions of purposes for visitors to the Arctic Refuge during the 2008 visitor season. To provide a convenient method of response, a questionnaire was developed that could be delivered to study participants after their refuge trip either through the US postal mail service (the hard-copy method) or as an attachment in an email message (the electronic method).

Study Population

The study design targeted a specific population from which to obtain visitor evaluations. The overall research method objective was to provide every visitor during the study time frame with an opportunity to participate in the research. With this goal, the statistical results obtained from the survey evaluations would be representative of the entire target population rather than being a representative sub-sample of that population. This research focused on non-local visitors to the study area during the recreation and sport hunting seasons. Alaska residents living in close proximity to the refuge, and who took trips into the refuge during the study period are not considered “visitors” and were not included in this study. Their attitudes, preferences, and concerns will be obtained through community meetings and through other means they prefer.

Geographic Scope: The study area included all lands within the Arctic National Wildlife Refuge in Northeast Alaska, including both the wilderness and non-wilderness designated areas. The study geographic scope did not include airspace or the consideration of flight-seers that did not land in the Refuge.

Study Time Frame: The temporal scope of the Arctic Refuge Visitor Study included the primary visitor season for the calendar year of 2008. The primary season, during which visitors were asked to participate in the survey, was defined as June 1st to Sept 30th 2008. This time period spanned both the recreational season (May through late August) and the hunting season (early July through September) and accounted for an estimated 90% of all use during the calendar year. If the respondent had traveled to the Arctic Refuge more than once in 2008, they were instructed to fill out the survey based on their first visit of the year.

Visitor Recruitment and Participation

Visitors became part of the study by voluntarily filling out and returning survey registration postcards. The cards were provided to them by their air taxi operators or at information kiosks at common entry / exit locations adjacent to the refuge. An example of the visitor survey registration postcard is presented in appendix A. The cards were designed to be folded in half and sealed to conceal the respondents’ information, and then returned to the researchers by mail using the included return address and pre-paid postage. The cards collected the following information from all potential study participants:

- Their name and contact information, including email and postal addresses.
- The date, location, and method (air taxi pilot, information kiosk, other) by which they were contacted to participate in the study.
- Their preferred method for survey administration; either postal mail or email.
- Their Arctic Refuge trip characteristics; including the length of stay, group size, entry/exit locations, and primary activity.

Survey Questionnaire

The questionnaire that was used to collect visitors' experience evaluation data included both hard-copy mail-back and electronic email-based formats designed to produce comparable results regardless of response method. Both versions of the questionnaire looked nearly identical in wording and layout. Following design recommendations of Dillman (2007), the mail-back version was professionally printed on high quality paper and was stapled and folded into a booklet format of 16 pages. The questionnaires were mailed to respondents in a package that also included an introductory cover letter and a stamped, pre-addressed return envelope. The electronic version of the questionnaire was designed in Adobe Acrobat software as a 'pdf' form that could be attached to an email message to respondents, who would then complete the form using a free version of Adobe Acrobat Reader, and email it back to the researchers.

Figure 1 provides a cross-reference between the survey questions and the study's four objectives. An example of the mail-back version of the survey instrument is presented in appendix B. The survey questions were linked to specific study objectives, and these links are listed in Figure 1 below. The objectives, referred to as 1 – 4 are described previously in this report. The survey questions are referred to in figure 1 by their questionnaire number along with a brief descriptive heading. For a full understanding of the content of each question refer to the survey example presented in appendix B. The objectives, along with their corresponding questions, include:

1. The first objective, to understand the range of characteristics of current visitors was addressed in Q1 through Q9 and Q20 through Q27.
2. The second objective, to describe visitors' relationships with the Refuge was addressed in Q4, Q6, Q13, Q15, Q20, Q21 and Q22.
3. The third objective, to describe visitors' experiences was addressed in Q10 - experiences and influences, Q11 - additional influences, and Q12 - encounters and their influences.
4. The fourth objective, to evaluate how visitors' experiences and relationships toward the Refuge are protected, enhanced, or negatively influenced by various environmental, managerial, or social conditions is addressed in questions 14, 16, 18, and 19. Most of the other questions were also incorporated into addressing this objective in the reporting of the results. For example, Question 19 is an open ended assessment of management preferences that is categorized and summarized under objective four in the report text. The complete comments are listed in appendix C and organized under the major themes that emerged from qualitative analysis of the data.

Figure 1: Study Plan Question / Objective Matrix, 2008 Arctic Refuge Visitor Study.

<u>Survey Question</u>	Objective			
	O1	O2	O3	O4
q1 Access method	*			
q2 Entry	*			
q3 Exit	*			
q4, q5 activities and primary purpose	*	*		*
q6 group type, size, and length of stay, places camped	*			*
q7 leave-no-trace practices	*			
q8 wildlife encounters and group safety practices	*			
q9 influences on decision to visit	*			
q10 experience conditions and their impact on visit			*	*
q11 other influences on visit			*	*
q12 numbers of encounters and their impacts on visit			*	*
q13 assigned values, place meanings		*		*
q15 emotional place attachment		*		*
Q14, q16 management options and appropriate activities				*
q17, q18 visitor limits				*
q19 Suggestions/comments				*
q20 number of previous visits	*	*		*
q21, q22 visits this year and intention to visit again	*	*		*
q23, q24, q25, q26, q27 demographics	*			

Data Collection

Because of the small population of visitors to the Arctic Refuge, the data collection method was designed to include all visitors to the Refuge during the study period. The field method utilized air taxi pilots as the primary contact point for most visitors, to be informed about the visitor study and offered the opportunity to participate (appendix A). Information posters with self-serve postcards were provided at Arctic Refuge information kiosks and visitor centers at Fairbanks, Coldfoot, Arctic Village, Fort Yukon, and Barter Island. The focus was on giving all visitors an opportunity to participate in the study.

A total of 415 registration cards were received from people taking trips to the refuge in 2008 using these combined methods. This count includes all cards received by the cut off date of January 29th, 2009. Of the total received, 397 respondents were identified to participate in the survey. Registration cards that were received but not used included four from people already registered, three from visitors that did not want to participate, nine cards that did not include adequate contact information, and two from foreign visitors that did not provide email contact information. All respondents, even those choosing the electronic version of the study, were required to provide postal contact information to ensure that each

respondent filled out only one survey. To simplify the survey process, foreign visitors were required to choose the electronic method of delivery. In all cases where registration cards had inadequate contact information, additional efforts were made to locate the potential respondents. Ultimately, all of the 397 registered visitors were successfully contacted with a request to participate in the survey.

The design of the survey effort followed many of the recommendations of Dillman's Total Design Method (Dillman 2007) intended to maximize responses to the study. Registered visitors were sent an initial survey, by their preferred method, between one and three months following their trip to the Arctic Refuge. This initial mailing was followed one week later by a reminder/thank you postcard sent by postal mail to all US respondents and electronically to foreign respondents. Visitors that did not respond to the initial mailings were sent up to two additional surveys by their preferred method. These were sent three and six weeks following the postcard reminder. Potential respondents that chose the electronic delivery method, but had still not returned a survey after three email attempts, were sent a final copy by postal mail. Data collection began with the first survey mailing to early visitors on July 24th, 2008. The final postal mailing was sent out on January 29th, 2009 and data collection was finalized on February 28th, 2009.

Survey Response

Response to the survey was fairly high and consistent with response rates in studies of visitors to similar wildland places. A total of 313 completed and usable surveys were received from 397 registered visitors, for an overall response rate of 79%. The response rate was somewhat higher for the traditional mail-based method than for the emailed version. Of the 156 visitors that requested the traditional method, 88% completed and returned a hard-copy survey. While more visitors opted for the electronic delivery method (241), only 73% of them returned a completed survey in either electronic or hard-copy format. To improve response, registered visitors that requested an electronic version but did not respond to any of the three email requests were sent a copy of the survey by postal mail. This additional contact generated 22 completed hard-copy surveys and improved the response rate of the 'electronic group' from 64% to 73%.

Table 1: Sample Response Rates, 2008 Arctic Refuge Visitor Study.

Response from Registered Visitors	Postal contact	Electronic contact	Overall
Surveys mailed out	156	241	397
Surveys returned completed	137	176	313
Response rate	88%	73%	79%

Electronic Survey Challenges

Utilizing electronic web-based surveys is a relatively new method in data collection. One benefit of this method over a more traditional hard-copy method is the benefits of not needing postage or having to manually enter data. However, a number of challenges also arose using this method. The research team dealt with the issues on a case by case basis. For instance, email messages were received that indicated that surveys were attached when they actually were not. Respondents were then contacted by email to let them know that the surveys were not received. Another challenge was found in the software and

technology necessary to administer an electronic survey, including the need for the respondent to have Adobe Reader 8.0 or higher installed on their computer in order to fill out the form. Although a link to a free copy of the latest version of Adobe Reader was provided in the email letter sent with the survey, the download time was reported by one respondent as being “prohibitively slow.” In this instance, a hard copy was mailed to the respondent.

A number of email comments from electronic respondents describe the various problems encountered and frustration with the process when it didn’t work. A list of these comments is presented in appendix C. It covers a variety of electronic survey challenges, primarily including: 1) connection issues, 2) outdated computer hardware and software, and 3) Apple Macintosh conversion issues.

Visitor Population Representation

Obtaining a statistically representative sample of visitors to the Arctic Refuge presented difficult challenges. The refuge is geographically remote, has a relatively low level of visitation, and is managed to protect its wilderness qualities. With the intent of preserving opportunities for recreation within a wilderness context, refuge management does not use a direct visitor registration system. The refuge management currently has no systematic and accurate overall method for estimating visitation to the refuge or its distribution within the refuge. However the refuge does have a consistent annual reporting requirement for commercially-supported visitation which provides insight about visitor use and distribution. Visitation not requiring commercial support (those individuals who, without an air taxi service, access the refuge independently by private plane, by boat, or by foot), is a less precise estimate than the estimate of visitor use supported by commercial services. This study was designed to accommodate the lack of knowledge about the population by systematically contacting all visitors that entered the refuge during the study period – i.e. the study was designed to conduct a census of the 2008 visitor population.

According to managers, most visits to the Arctic Refuge occur during the summer and fall seasons of June, July, August, and September. Visitor numbers are thought to have remained stable since 2001, with estimates ranging between 976 and 1,180 commercially guided and/or transported visitors each year, and a manager’s estimate of 1,115 total visitors in 2007 (table 2). Each commercially guided or transported visitor spends, on average, between 7 and 12 days in the Refuge. Because of the size of the Refuge and the unlimited number of entry points, it is difficult to estimate the number of independent visitors who come into the Refuge using their own planes, boats, or on foot, but managers believe it is a relatively low number, perhaps about 200 individuals each year (visitor statistics from ANWR web site, USFWS data). Statistical estimates from an Alaska resident study, provided by a study plan reviewer, suggest that refuge visitation may be substantially higher than management estimates, however.

Table 2: Managers' Estimate of Population, 2008 Arctic Refuge Visitor Study.

Managers' estimated number of visitors in 2007: *	
commercially guided hunters	86
commercially transported but unguided hunters	223
commercially guided recreational visitors	324
commercially transported, unguided recreational visitors	308
independent visitors (<i>estimate - no direct count</i>)	174
estimated total population	1,115
* This estimate does not include commercial guides. Commercial guides were included in the visitor study and they returned 29 questionnaires, representing 9% of the survey sample.	

The best estimates of current visitation, although of unknown accuracy, suggest actual numbers are nearly three times higher than the number of visitors who sent in survey registration cards during the 2008 season. As this study attempted a full census of visitors, rather than drawing a random sample of the population, the apparently low rate of registration raises concern about the representativeness of the study data for statistical analysis. In other words, we can not attach any probability or precision to how well the statistics actually estimate the population parameters. There is simply no way of estimating confidence intervals for statistical estimates without more knowledge about the sample and its corresponding population of visitors. While these statistics may represent the population well, because of these concerns, this report does not draw conclusions about the population, but only the sample and estimates of central tendency or of the significance of apparent differences in estimates across groups within the sample. Future social science research at the Arctic Refuge should be designed to incorporate a vigorous visitor use estimation system and true random sampling to improve the ability to describe the population with better precision. The results provide needed insight about social science research methods, visitor characteristics and concerns, and management issues at the Arctic Refuge. It is hoped that this research can serve as a basis for continued social science inquiry at the Arctic Refuge.

Arctic Refuge Visitor Study Results

Objective One: Understand the Range of Characteristics of Current Visitors

- Identifying individual visitor demographics, frequency of visits, and residence.
- Identifying trip characteristics, such as activities participated in, area(s) of use, method of access, size of group.

The questions addressing this objective include Q1 through Q9 and Q20 through Q27 in the visitor questionnaire (Appendix B).

Method of Access

Question 1 – Method of access to the Arctic Refuge

- Most respondents flew in by chartered plane (82%), while 8% hiked in from the Dalton Highway and 7% flew in by private plane.

Q1: How did you access the AR		
Access Type	Frequency	Percent
Fly-in by chartered plane	251	82
Hike in from Dalton Highway	26	8
Fly-in by private plane	21	7
Access by raft/kayak/canoe	8	3
Other (specify)	1	<1

Visitor Characteristic	Access Type*		
	Charter Flight	Private Airplane	Dalton HW Hike
Sample size (<i>n</i>)	251	21	26
Age (mean)	50	46	42
Female (percent of respondents)	38%	45%	23%
Female sample distribution - <i>n</i> = 113	83%	8%	5%
Group size (mean)	6	5	5
Days in refuge (mean)	11	9	9
Places camped (mean)	6	3	6
Alaska resident	37%	42%	31%
Alaska resident sample distribution - <i>n</i> = 112	82%	7%	7%
Hunting	21%	43%	12%
Hunting sample distribution - <i>n</i> = 65	82%	5%	10%
Backpacked on trip	35%	57%	85%
Floated (non-motorized boating)	56%	24%	12%
Expect to return to the AR within 5 years	79%	80%	88%

* Includes the top three access types; this includes 97% of all respondents

Entry and Exit Points

Questions 2 and 3 - Entry and Exit Points are summarized in the following table. A number of respondents either didn't answer these questions or provided locations outside of the refuge.

- The most common entry and exit point, accounting for 27% of the known entries and 30% of the known exits, is the Kongakut River. Other locations among the top five most popular for both entry and exit are the Canning (18% entry, 19% exit), the Hulahula (13%, 10%), Atigun (7%, 8%), and the Wind River (6%, 4%).

Place or drainage in AR	Q2 Start of Trip		Q3 End of Trip	
Q2 and Q3 Locations	Freq	Pcnt (of valid answers)	Freq	Pcnt (of valid answers)
Kongakut	75	27%	76	30%
Canning	51	18%	50	19%
Hulahula	36	13%	26	10%
Atigun	20	7%	21	8%
Wind R	18	6%	10	4%
Jago R	12	4%	8	3%
Saddlerochit Mts	9	3%	8	3%
Sheenjek	9	3%	11	4%
Achilik	6	2%	2	1%
Colleen R	6	2%	4	2%
Ivaishak R	6	2%	4	2%
Peters Lake	4	1%	0	0%
Ekaluakat R	3	1%	1	0%
Sagavanirktok R	3	1%	8	3%
Spring Creek	3	1%	2	1%
Timber Lake	3	1%		0%
Chandalar	2	1%	7	3%
Chandalar R, Middle F	2	1%	2	1%
Joe Crk	2	1%	3	1%
Ribdon River	2	1%	4	2%
Roche Mountinee Creek	2	1%		0%
Accomplishment Crk	1	0%	1	0%
Egaksrak	1	0%		0%
Leffingwell R	1	0%		0%
Smoke Creek	1	0%	1	0%
Turner River mouth	1	0%	1	0%
Okpilak River		0%	2	1%
Arey Island		0%	1	0%
Cane Crk		0%	1	0%
Carter's Pass, S of		0%	1	0%
Ignek		0%	1	0%
Marten Creek		0%	1	0%

Frequency Missing = 34, 11% *Frequency Missing = 56, 18%*

Activity Participation

Question 4 measures trip activity participation.

- Day hiking (72%), camping (76%), observing wildlife (79%), and photography (70%) were the most popular. Twenty-one percent participated in hunting.

Q4. What activities did you participate in at the Arctic National Wildlife Refuge during this trip? (*The frequency distributions with sample sizes are listed in appendix C*)

Participation Rate	Activity	Participation Rate	Activity
40%	Backpacking	<1%	Boating - motorized
72%	Day hiking	49%	Boating – non-motorized
21%	Hunting	79%	Observing wildlife
76%	Camping	52%	Birding
15%	Mountain climbing	70%	Photography
25%	Fishing		
7%	Other - <i>These items are summarized in Appendix C</i>		

Trip Purpose

Question 5 asked for the primary purpose of the trip, with responses collected in narrative form. These responses were categorized and the number of comments by category is listed below. The majority of visitors said the primary reason for visiting the refuge was for some aspect of recreation, vacation, enjoyment, etc. (30%), hunting (19%), or a wilderness experience (18%). The complete, unconsolidated list is presented in appendix C.

Q5 Primary Reason for AR Trip		
Description:	Frequency	Percent
Recreation, vacation, visit, sightseeing, exploration, pleasure, enjoyment, fun, rest and relaxation	93	30
Hunting	58	19
Wilderness and Nature Experience	55	18
Backpacking, Hiking	33	11
Commercial Activities	16	5
Boating	12	4
Education	12	4
Photography	7	2
Climb Mount Chamberlin	4	1
Birding	3	1
Caribou Migration	3	1
See Gray-Headed Chickadee	3	1
Spiritual, meditation, art	3	1
Spend time with friends	2	1
Camping	1	0
Personal	1	0

Frequency Missing = 7

Trip Characteristics

Q6 Trip Characteristics.

- Fifty-four percent of respondents used a guide or outfitter and 9% were working as guides. *(Frequency distributions are listed in appendix C)*
- The median group size was six, the median length of stay was 10 days, and the median number of places camped was five.

Variable	Mean	Median	Minimum	25th Pctl	75th Pctl	Maximum
q6c number in group	6	6	1	3	8	13
q6d days in the refuge	11	10	1	8	12	42
q6e number of places camped	6	5	0	3	8	41

Camping Practices

Q7 Tables of low-impact practices.

- Fifty-two percent of respondents always camped on a gravel bar or bare ground (*75% usually or always camped on a gravel bar or bare ground*),
- 53% never had campfires,
- 82% always buried their solid human waste
- 9% never did – some may have carried it out.

Q7. How often did you do the following while camping? (*The complete frequency distributions with sample size are listed in appendix C*)

Q7 Camping Practices	Always	Usually	Sometimes	Never
a. Camp on gravel bar or bare ground	52%	23%	18%	7%
b. Use a campfire	14%	8%	25%	53%
c. Bury solid human waste	82%	6%	3%	9%

Wildlife Encounters and Safety Practices

Question 8 - Wildlife encounters and safety practices.

- Twelve respondents (4% of the sample) reported menacing wildlife encounters. The incidents and the visitor responses are described in narrative form below:

q8bspec: If wildlife encounter, where did it occur and what happened?

Three grizzlies came within 150 yards of camp with no menacing incident.

There was one grizzly bear sighting while we were exploring a hillside during our paddling part of the trip. Bear was sighted as we were walking down a hillside back to the canoe. Bear did not see us nor smell us while he/she galloped towards us...

Foothills north of Caribou Pass; Bear was unwilling to leave us.

On river, approached by grizzly that ignored shouting. Finally left area

We had a pair of male grizzlies that would not leave us alone at our spike camp. We shot them both.

While field dressing a caribou we had a grizzly come in and charge us. We gathered our guns, moved away from the caribou and formed a tight group and the bear turned away and ran off.

Got between sow and 2 cubs. Thank God for our guide. Fired one shot in air. Bear stopped and left.

Drainage of the Kongakut. Accidentally got between a sow and her two "first year cubs." Yelled for her to run away. She charged, and I fired a shot over her head at about six yards.

On a side drainage of the main river

We were stalked twice. In one case a shot near the bear had to be fired and it still only ran 60 yards and kept circling us

Surprised a bear feeding in a river bottom while hiking up wind. We were <40 yds away when we noticed the bear. We immediately dropped our packs, grabbed our rifles and yelled. The bear rose on his hind legs and stared at us before finally deciding.....

Old Woman Creek and Sheenjek River-a young adult grizzly approached despite two of us standing side by side and yelling. The bear stopped and then ran away after smelling us.

Influences on Decision to Visit the Refuge

Question 9 measures influences on respondents' decision to visit the refuge.

- The refuge's wilderness character, the opportunity to see wildlife, and the opportunity to experience solitude were the most influential items measured in Q9 (87%, 87%, and 79%, respectively, were rated as having a 'high influence').
- 'Other influences' (see appendix C for a categorical list) were rated as highly influential by 31% of the respondents.

Q9a. Rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge. *(The complete frequency distributions with sample size are listed in appendix C)*

Q9a: Influences on decision to visit the AR	No Influence	Slight Influence	Moderate Influence	High Influence
a. Magazine, newspaper, or other media descriptions of the refuge	38%	26%	20%	15%
b. The Arctic Refuge's brochures and other printed information	75%	18%	5%	2%
c. The Arctic Refuge's web site	73%	18%	7%	2%
d. Personal contact with Refuge staff	86%	6%	5%	2%
e. National publicity related to the oil development issue	31%	17%	25%	28%
f. Information from commercial guides or outfitters	40%	14%	21%	25%
g. The refuge's wilderness character	5%	2%	7%	87%
h. Opportunity to see wildlife	2%	2%	10%	87%
i. The opportunity to experience solitude	3%	4%	14%	79%
j. Other - these items area summarized in appendix C	68%	0%	2%	31%

Influences on Hunters' Decisions to Visit the Refuge

- The majority of hunters said the greatest influences on their decision to hunt in the refuge were the opportunity to hunt in a wild and natural area along with a lower probability than elsewhere of encountering other hunters.

Q9b. If you were hunting, rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge. (*The complete frequency distributions with sample size are listed in appendix C*)

Q9b: Influences on decision to hunt in the AR (n = 66)	No Influence	Slight Influence	Moderate Influence	High Influence
a. Opportunity to harvest a trophy animal	14%	18%	26%	42%
b. The opportunity to procure meat	9%	17%	26%	48%
c. The opportunity to hunt in a wild, natural, and remote area	0%	3%	6%	91%
d. A lower probability of encountering other hunters than elsewhere	2%	6%	20%	72%
e. Opportunity to hunt a unique species not available at home	23%	12%	17%	48%
f. Other	88%	2%	0%	11%

Frequency of Visits

Question 20 measures lifetime visits to the refuge, while question 21 measures trips *this year* to the refuge.

- First-time visitors - 60%. The average overall is four visits to the refuge in the respondent's lifetime including the current trip. However, the mean estimate is heavily influenced by a few people who have taken many trips (up to 125 in their lifetime). The median estimate of 1 indicating that at least half of the respondents are on their first trip is more representative of the norm, while 90% of the visitors have taken 6 or fewer trips.
- Twenty-one respondents (7%), mostly guides, took more than one trip this year to the refuge. The average, however, is just one trip to the refuge in 2008.

Variable	Label	Mean	Median	Range	N
q20	Lifetime trips to the AR	4	1	124	305
q21	Trips this year to the AR	1	1	7	300

Intention to Visit Again

Question 22 asked about the respondents' intention to visit again within the next five years. Their specific reasons for returning are listed in appendix C.

- 80% expect to return within the next 5 years!

Expect to return to the AR within 5 years		
q22	Frequency	Percent
No	60	20.07
Yes	239	79.93

Frequency Missing = 14

Visitor Demographics

Age, Sex and Education – Questions 23, 24, and 25

- The average age is 49 and the oldest respondent is 78. For several research purposes the minimum age of respondents was 15 years, and this lower limit is reflected in the age distribution.
- Male respondents make up 63% of the sample.
- 84% have at least a 4-year college degree, 46% have a graduate degree.

Analysis Variable : q23 Age			
Mean	Median	Minimum	Maximum
49	50	15	78

Sex		
q24	Frequency	Percent
Female	114	37.25
Male	192	62.75

Frequency Missing = 7

Education				
q25	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Less than a high school diploma	1	0.33	1	0.33
High school graduate or GED	13	4.28	14	4.61
Trade or professional school	8	2.63	22	7.24
Some college	27	8.88	49	16.12
Four-year college degree	88	28.95	137	45.07
Some graduate school	27	8.88	164	53.95
Graduate degree (specify)	140	46.05	304	100.00

Frequency Missing = 9

Place of Residence, Q26

- 98% of the respondents were from the USA. Other respondents were from Australia, Canada, and Austria. *Note that the survey and registration system were offered in English only, so non-English speaking visitors were, unfortunately, excluded from the study.*
- 37% of the US respondents were from Alaska, 10% from California, and 8% from Washington.
- Within Alaska, the four most common zip codes were from Anchorage and Fairbanks.

Country		
q26spec	Frequency	Percent
USA	306	97.76
Australia	3	0.96
Canada	3	0.96
Austria	1	0.32

Q26: State for US residents					
State	Frequency	Percent	State	Frequency	Percent
AK	115	37	AZ	2	1
CA	30	10	CT	2	1
WA	26	8	DC	2	1
CO	14	5	HI	2	1
MA	13	4	ID	2	1
IL	9	3	KY	2	1
OR	9	3	ME	2	1
NC	8	3	OH	2	1
MT	7	2	SC	2	1
NY	7	2	WI	2	1
MI	6	2	AL	1	0
TX	6	2	KS	1	0
FL	5	2	MO	1	0
MD	5	2	NE	1	0
MN	4	1	NH	1	0
PA	4	1	NM	1	0
UT	4	1	OK	1	0
VT	4	1	VA	1	0
WY	3	1			

Household Income and Size, Q27

- The median household income of respondents is between \$75,000 and \$100,000. The median household size is 2.

2007 Household income				
q27a	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Less than \$25,000	20	6.80	20	6.80
\$25,000 to \$49,999	34	11.56	54	18.37
\$50,000 to \$74,999	52	17.69	106	36.05
\$75,000 to \$99,999	49	16.67	155	52.72
\$100,000 to \$149,999	62	21.09	217	73.81
\$150,000 to \$199,999	31	10.54	248	84.35
\$200,000 to \$249,999	23	7.82	271	92.18
\$250,000 or more	23	7.82	294	100.00

Frequency Missing = 19

Household size				
q27b	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	79	26.87	79	26.87
2	138	46.94	217	73.81
3	33	11.22	250	85.03
4	36	12.24	286	97.28
5	8	2.72	294	100.00

Frequency Missing = 19

Objective Two: Describe Visitor Relationships with the Arctic Refuge

The following measures were included in the survey to develop understanding about peoples' relationships with the Arctic Refuge:

1. Activities on the trip and visitation history – Question 4, 6, and 20;
2. Beliefs about the purposes of the refuge - Question 13;
3. Attachments to the refuge – Question 15

The questions most directly addressing this objective include Q4 activities, Q6a guided/outfitted party, Q13 refuge purposes, Q15 attachments, and Q20 Arctic Refuge use history. Descriptive results for questions Q4 were presented in the previous section, while descriptive results for questions 13 and 15 are presented in this section.

Activities and Visitation

The following items should be considered in addition to Q4 activities when considering visitor activities at the refuge:

- Q4 Hunting – 21% participation
- Q6a Guided/Outfitted – 54% of respondents
- Q20 Lifetime visits to the refuge – 60% were visiting for the first time.

Beliefs about Refuge Purpose

Purpose rating highlights

- The most important purposes identified in question 13 include 'a place for wildlife' (97% rated it very important), 'a place for wilderness' (96%), Remoteness and isolation (89%), future generations (89%), and a place for natural processes (86% rated it very important).

The following table presents the percent distribution of responses to each purpose item in question 13.

Importance of Refuge Conditions and Purposes

Q13. How important do you believe each of the following is as a purpose of the Arctic Refuge? *(The complete frequency distributions with sample sizes are listed in appendix C)*

	Not at all Important	Slightly Important	Moderately Important	Very Important
a. A place for recreation	5%	18%	29%	49%
b. A place for wildlife	0%	0%	2%	97%
c. A place of high economic value for tourism and guiding	19%	39%	26%	16%
d. A place of high economic value for energy development	75%	13%	6%	7%
e. A place for wilderness	3%	0%	3%	96%
f. A place for scientists to study natural processes	2%	9%	25%	64%
g. Just knowing that it is there, whether or not you visit again	4%	4%	12%	80%
h. A place for reflection and contemplation	5%	13%	21%	62%
i. A place that requires self-reliance	2%	8%	18%	71%
j. A place where you have the freedom to go where you want	4%	11%	18%	67%
k. A place to perpetuate America's exploration history and cultural heritage	12%	25%	24%	39%
l. Adventure	2%	7%	22%	68%
m. Remoteness and isolation	0%	1%	10%	89%
n. A place to learn about nature	3%	9%	31%	58%
o. A representation of the Arctic	2%	5%	15%	79%
p. A place for humility	13%	16%	25%	46%
q. A place for quiet and natural sounds	2%	4%	13%	81%
r. A place for solitude	2%	7%	13%	79%
s. A place for opportunities to perpetuate subsistence and Native culture	13%	21%	29%	37%
t. A bequest to future generations	2%	3%	6%	89%
u. A place to understand the effects of climate change	7%	12%	26%	56%
v. A place that protects water and air quality	2%	5%	13%	81%
w. A sacred place	13%	12%	20%	56%
x. A place that provides baseline comparison to study the effects of human actions on the environment	7%	13%	29%	51%
y. An environment largely free of the reminders of modern society	2%	2%	16%	81%
z. A place where natural process continue, without human control or manipulation	1%	4%	10%	86%
aa. A place to discover unknown or nameless areas and features	5%	11%	20%	65%
bb. A place for restraint of human activities, and therefore, limited addition to climate change effects	7%	10%	16%	66%

Attachments to the Arctic Refuge

The following table presents the percent distribution of responses to each attachment item in question 15. (see appendix C for the complete Q15 frequency distributions with sample sizes).

Q15. How much do you agree or disagree with each of the following statements about the Arctic National Wildlife Refuge?

Q15:	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. I identify strongly with the Arctic National Wildlife Refuge	1%	1%	10%	29%	59%
b. I am not very attached to the Arctic National Wildlife Refuge	65%	24%	7%	2%	2%
c. I feel like the Arctic National Wildlife Refuge is a part of me	2%	5%	24%	33%	37%
d. The Arctic National Wildlife Refuge is the best place to do what I did on this trip	1%	4%	14%	27%	54%
e. The Arctic National Wildlife Refuge is very special to me	0%	0%	4%	21%	74%
f. I could substitute another place for doing the types of things I did on this trip	34%	23%	14%	25%	4%
g. I get more satisfaction out of visiting the Arctic National Wildlife Refuge than any other place	2%	13%	36%	27%	23%
h. Doing what I do at the Arctic National Wildlife Refuge is more important to me than doing it anywhere else	2%	16%	26%	28%	27%

The following tables provide descriptions of the intersection between hunting activity, and commercially guided/outfitted trips. (Complete cross-tabulated frequency distributions for activity participation by hunter/non-hunter and guided/no-guided are included in appendix C)

- The sample includes 66 hunters (21%) and 167 guided/outfitted (54%) visitors.

Q4 Hunting		
q4c	Frequency	Percent
Hunter	66	21.09
Non-Hunter	247	78.91

use the services of a commercial guide or outfitter		
q6a	Frequency	Percent
Guided/Outfitted	167	53.87
Non-Guided	143	46.13

Frequency Missing = 3

- 19 respondents, representing 6% of the overall sample (*see note (1) one in the following table*), were guided/outfitted hunters, while non-guided hunters represent 15% of the overall sample (*see note (2)*); 89% of the guided/outfitted sample did not hunt on the trip (*see note (3)*).

Table of q4c by q6a			
q4c(Q4 Hunting)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency	Guided/Outfitted	Non-Guided	
Percent			
Row Pct			
Col Pct			
Hunter	19 6.13(1) 28.79 11.38	47 15.16(2) 71.21 32.87	66 21.29
Non-Hunter	148 47.74 60.66 88.62(3)	96 30.97 39.34 67.13	244 78.71
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Characteristics of the hunting activity and the commercial service will be further examined under objective four to evaluate how these orientations are reflected in opinions about appropriate management of the refuge. Written comments about management and about more general topics that are listed in appendix C are identified by these orientations to provide further insight about visitor opinions.

Objective Three: Describe Visitor Experiences

Objective three describes visitor experiences by:

- a) describing influences on experiences;
- b) evaluating the importance of various experiences to the overall quality of visitors' trips;
- c) determining which influences affect each experience.

Questions related to this objective include Q10 - experiences and influences, Q11 - additional influences, and Q12 - encounters and their influences.

Experiences and Their Influences, Q10

- A large proportion of respondents reported experiencing 'Vastness' (93%), 'Wilderness' (91%), 'Remoteness and Isolation' (84%) and 'Natural conditions' (84%) as components of their visit.
- The greatest reported positive influence on visits came from experiencing the components of 'Wilderness' (92%), 'A Sense of Vastness' (92%), 'Remoteness and Isolation' (89%), and 'A Sense of Adventure' (84%).

These results show that three of the top four experience components reported (Wilderness, Remoteness and Isolation, and Vastness) were also reported as having greatly improved the respondent's overall visit. In general, there was more variation in the types of experiences than there were in influences on experiences. While there were varying levels of experiences, and some experience types had a neutral influence on the overall trip experience, there were virtually no negative influences on Arctic Refuge experiences that were measured by question 10.

The experiences and their influences were factor analyzed in individual efforts to identify underlying dimensions, or patterns of response. However, because of the typical positive evaluation on all of the question 10 experiences and influences, all items were highly interrelated. Only one experience factor and one influence factor was identified for this set of items.

Q10. The following items are about various components of Arctic National Wildlife Refuge visits. The complete cross-tabulated results with sample sizes for Q10 are presented next. Following are simple distributions. The cross-tabulated results following this table show the correspondence between the amount of experience and level of influence.

(1) Did you experience:				(2) Did this experience:				
Not at all	Slight	Moderate	High	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
a. A sense of adventure								
0%	3%	20%	76%	0%	1%	4%	12%	84%
b. Freedom to change travel route during trip								
16%	20%	26%	38%	1%	4%	35%	24%	36%
c. Remoteness and isolation								
0%	2%	14%	84%	0%	1%	2%	7%	89%
d. Solitude								
1%	4%	20%	75%	0%	1%	4%	14%	81%
e. Unpredictability of nature								
2%	10%	26%	62%	0%	2%	20%	16%	61%
f. Wilderness								
0%	1%	8%	91%	0%	0%	3%	5%	92%
g. Personal growth, increased awareness								
6%	17%	25%	53%	0%	1%	21%	25%	53%
h. Connection and immersion with nature								
2%	4%	17%	78%	0%	0%	8%	12%	79%

Q10. (continued)

(1) Did you experience:					(2) Did this experience:				
Not at all	Slight	Moderate	High		Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
i. Time for reflection, contemplation									
4%	12%	26%	58%		0%	1%	17%	25%	56%
j. The presence of wildlife									
1%	13%	25%	62%		1%	4%	5%	14%	76%
k. Natural conditions, unaltered by civilization									
1%	3%	12%	84%		0%	2%	4%	10%	84%
l. A sense of vastness									
0%	1%	6%	93%		0%	0%	2%	7%	91%
m. Learning about nature									
3%	11%	38%	48%		0%	0%	10%	26%	63%
n. A sense of the Arctic									
1%	5%	17%	77%		0%	0%	5%	17%	77%
o. A sense of humility									
11%	9%	20%	60%		0%	1%	21%	22%	56%
p. History, a tie to the past									
14%	31%	32%	23%		0%	0%	35%	37%	27%
q. A sense of self-reliance									
2%	11%	36%	52%		0%	1%	13%	33%	52%
r. A sense of uncertainty flying in a small airplane									
43%	28%	19%	10%		1%	2%	62%	17%	18%

A note on Interpreting Cross-Tabulated Result Tables

The following results for Question 10 “Experiences and their Influences” are cross-tabulations. Each item is shown in a matrix format with each level of influence by each level of experience. The bottom row and right column of each matrix show totals for their respective rows/columns. The internal cells each list four numbers representing the intersection between the row and column values. The upper left cell is a reminder key that shows that the top number in a cell is the frequency for that cell, the second number is the cell percent, the third number is the percent distribution within the row, and the bottom number is the percent distribution within the column. A narrative is provided for the first two tables to assist in the interpretation of all ‘cross-tabulated’ questions of this type throughout the rest of the report. Question 10a “Experiencing a sense of adventure” provides the first example.

Overall, 76% (*see table note (1)*) of all respondents felt a high level of a sense of adventure. Of those who felt a high level of a sense of adventure (all those in the third row of values), 95% (*see table note (2)*) felt that experiencing that high level of adventure greatly improved their visit to the refuge.

Table of q10a1 by q10a2					
q10a1(Experience sense of adventure)	q10a2(Influence of sense of adventure)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Slight	0 0.00 0.00 0.00	4 1.33 40.00 36.36	4 1.33 40.00 11.43	2 0.66 20.00 0.79	10 3.32
Moderate	1 0.33 1.64 50.00	2 0.66 3.28 18.18	26 8.64 42.62 74.29	32 10.63 52.46 12.65	61 20.27
High	1 0.33 0.43 50.00	5 1.66 2.17 45.45	5 1.66 2.17 14.29	219 72.76 95.22(2) 86.56	230 76.41(1)
Total	2 0.66	11 3.65	35 11.63	253 84.05	301 100.00
Frequency Missing = 12					

Question 10b measures the level and influence of a sense of freedom to change the travel route. The right-hand column labeled 'Total' (*see table note (1)*) shows a wider ranger of experience levels than found in the previous 10a table. While 16% of all respondents felt they 'did not at all' experience a sense of freedom to change travel route, 20% felt a slight amount of freedom, 26% sensed a moderate amount, and 38% felt a high level. The bottom row, labeled 'Total' (*see table note (2)*) shows the distribution of the ratings of the influence that freedom had on their trip. The largest percentage of respondents (36%), felt that the freedom they experienced had 'Greatly improved their visit'. Of the 36% whose visit was greatly improved, 16% (*see table note (3)*) felt a moderate amount of freedom to change plans and 84% (*see table note (4)*) felt a high level of freedom to change plans. No one that felt freedom greatly improved their visit rated the amount that they experienced at 'not at all' or 'slight.'

Table of q10b1 by q10b2						
q10b1(Experience Freedom to change travel route)	q10b2(Influence of Freedom to change travel route)					Total (1)
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	1 0.33 2.08 50.00	6 1.99 12.50 50.00	40 13.25 83.33 37.74	1 0.33 2.08 1.39	0 0.00 0.00 0.00	48 15.89
Slight	1 0.33 1.69 50.00	5 1.66 8.47 41.67	37 12.25 62.71 34.91	16 5.30 27.12 22.22	0 0.00 0.00 0.00	59 19.54
Moderate	0 0.00 0.00 0.00	0 0.00 0.00 0.00	20 6.62 25.00 18.87	42 13.91 52.50 58.33	18 5.96 22.50 16.36 (3)	80 26.49
High	0 0.00 0.00 0.00	1 0.33 0.87 8.33	9 2.98 7.83 8.49	13 4.30 11.30 18.06	92 30.46 80.00 83.64 (4)	115 38.08
Total (2)	2 0.66	12 3.97	106 35.10	72 23.84	110 36.42	302 100.00
Frequency Missing = 11						

Table of q10c1 by q10c2					
q10c1(Experience Remoteness and isolation)	q10c2(Influence of Remoteness and isolation)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Slight	1 0.33 20.00 25.00	3 0.98 60.00 42.86	1 0.33 20.00 4.55	0 0.00 0.00 0.00	5 1.64
Moderate	3 0.98 6.98 75.00	1 0.33 2.33 14.29	13 4.26 30.23 59.09	26 8.52 60.47 9.56	43 14.10
High	0 0.00 0.00 0.00	3 0.98 1.17 42.86	8 2.62 3.11 36.36	246 80.66 95.72 90.44	257 84.26
Total	4 1.31	7 2.30	22 7.21	272 89.18	305 100.00
Frequency Missing = 8					

Table of q10d1 by q10d2						
q10d1(Experience Solitude)	q10d2(Influence of Solitude)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0 0.00 0.00 0.00	2 0.66 66.67 50.00	1 0.33 33.33 9.09	0 0.00 0.00 0.00	0 0.00 0.00 0.00	3 0.99
Slight	1 0.33 8.33 100.00	0 0.00 0.00 0.00	4 1.32 33.33 36.36	5 1.65 41.67 11.63	2 0.66 16.67 0.82	12 3.96
Moderate	0 0.00 0.00 0.00	2 0.66 3.33 50.00	2 0.66 3.33 18.18	30 9.90 50.00 69.77	26 8.58 43.33 10.66	60 19.80
High	0 0.00 0.00 0.00	0 0.00 0.00 0.00	4 1.32 1.75 36.36	8 2.64 3.51 18.60	216 71.29 94.74 88.52	228 75.25
Total	1 0.33	4 1.32	11 3.63	43 14.19	244 80.53	303 100.00
Frequency Missing = 10						

Table of q10e1 by q10e2					
q10e1(Experience Unpredictability of nature)	q10e2(Influence of Unpredictability of nature)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0 0.00 0.00 0.00	4 1.32 80.00 6.45	1 0.33 20.00 2.04	0 0.00 0.00 0.00	5 1.65
Slight	1 0.33 3.23 14.29	24 7.92 77.42 38.71	3 0.99 9.68 6.12	3 0.99 9.68 1.62	31 10.23
Moderate	1 0.33 1.28 14.29	23 7.59 29.49 37.10	33 10.89 42.31 67.35	21 6.93 26.92 11.35	78 25.74
High	5 1.65 2.65 71.43	11 3.63 5.82 17.74	12 3.96 6.35 24.49	161 53.14 85.19 87.03	189 62.38
Total	7 2.31	62 20.46	49 16.17	185 61.06	303 100.00
Frequency Missing = 10					

Table of q10f1 by q10f2					
q10f1(Experience Wilderness)	q10f2(Influence of Wilderness)				Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0 0.00 0.00 0.00	1 0.33 100.00 11.11	0 0.00 0.00 0.00	0 0.00 0.00 0.00	1 0.33
Slight	0 0.00 0.00 0.00	2 0.66 66.67 22.22	0 0.00 0.00 0.00	1 0.33 33.33 0.36	3 0.99
Moderate	0 0.00 0.00 0.00	3 0.99 13.04 33.33	9 2.96 39.13 60.00	11 3.62 47.83 3.94	23 7.57
High	1 0.33 0.36 100.00	3 0.99 1.08 33.33	6 1.97 2.17 40.00	267 87.83 96.39 95.70	277 91.12
Total	1 0.33	9 2.96	15 4.93	279 91.78	304 100.00
Frequency Missing = 9					

Table of q10g1 by q10g2					
q10g1(Experience Personal growth, increased awareness)	q10g2(Influence of Personal growth, increased awareness)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0	17	0	0	17
	0.00	5.61	0.00	0.00	5.61
	0.00	100.00	0.00	0.00	
	0.00	26.98	0.00	0.00	
Slight	2	32	17	0	51
	0.66	10.56	5.61	0.00	16.83
	3.92	62.75	33.33	0.00	
	100.00	50.79	22.08	0.00	
Moderate	0	12	48	15	75
	0.00	3.96	15.84	4.95	24.75
	0.00	16.00	64.00	20.00	
	0.00	19.05	62.34	9.32	
High	0	2	12	146	160
	0.00	0.66	3.96	48.18	52.81
	0.00	1.25	7.50	91.25	
	0.00	3.17	15.58	90.68	
Total	2	63	77	161	303
	0.66	20.79	25.41	53.14	100.00
Frequency Missing = 10					

Table of q10h1 by q10h2					
q10h1(Experience Connection and immersion with nature)	q10h2(Influence of Connection and immersion with nature)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0	7	0	0	7
	0.00	2.28	0.00	0.00	2.28
	0.00	100.00	0.00	0.00	
	0.00	26.92	0.00	0.00	
Slight	0	6	5	0	11
	0.00	1.95	1.63	0.00	3.58
	0.00	54.55	45.45	0.00	
	0.00	23.08	13.89	0.00	
Moderate	1	10	24	16	51
	0.33	3.26	7.82	5.21	16.61
	1.96	19.61	47.06	31.37	
	100.00	38.46	66.67	6.56	
High	0	3	7	228	238
	0.00	0.98	2.28	74.27	77.52
	0.00	1.26	2.94	95.80	
	0.00	11.54	19.44	93.44	
Total	1	26	36	244	307
	0.33	8.47	11.73	79.48	100.00
Frequency Missing = 6					

Table of q10i1 by q10i2						
q10i1(Experience Time for reflection, contemplation)	q10i2(Influence of Time for reflection, contemplation)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0 0.00 0.00 0.00	0 0.00 0.00 0.00	11 3.62 100.00 20.75	0 0.00 0.00 0.00	0 0.00 0.00 0.00	11 3.62
Slight	1 0.33 2.70 100.00	3 0.99 8.11 100.00	24 7.89 64.86 45.28	9 2.96 24.32 11.69	0 0.00 0.00 0.00	37 12.17
Moderate	0 0.00 0.00 0.00	0 0.00 0.00 0.00	16 5.26 20.00 30.19	51 16.78 63.75 66.23	13 4.28 16.25 7.65	80 26.32
High	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 0.66 1.14 3.77	17 5.59 9.66 22.08	157 51.64 89.20 92.35	176 57.89
Total	1 0.33	3 0.99	53 17.43	77 25.33	170 55.92	304 100.00
Frequency Missing = 9						

Table of q10j1 by q10j2						
q10j1(Experience The presence of wildlife)	q10j2(Influence of The presence of wildlife)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	2 0.65 66.67 66.67	0 0.00 0.00 0.00	1 0.33 33.33 7.14	0 0.00 0.00 0.00	0 0.00 0.00 0.00	3 0.98
Slight	1 0.33 2.56 33.33	10 3.27 25.64 90.91	8 2.61 20.51 57.14	11 3.59 28.21 25.00	9 2.94 23.08 3.85	39 12.75
Moderate	0 0.00 0.00 0.00	1 0.33 1.33 9.09	3 0.98 4.00 21.43	28 9.15 37.33 63.64	43 14.05 57.33 18.38	75 24.51
High	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 0.65 1.06 14.29	5 1.63 2.65 11.36	182 59.48 96.30 77.78	189 61.76
Total	3 0.98	11 3.59	14 4.58	44 14.38	234 76.47	306 100.00
Frequency Missing = 7						

Table of q10k1 by q10k2						
q10k1(Experience Natural conditions, unaltered by civ.)	q10k2(Influence of Natural conditions, unaltered by civ.)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	1 0.33 25.00 100.00	0 0.00 0.00 0.00	3 0.99 75.00 27.27	0 0.00 0.00 0.00	0 0.00 0.00 0.00	4 1.32
Slight	0 0.00 0.00 0.00	1 0.33 11.11 20.00	5 1.65 55.56 45.45	2 0.66 22.22 6.67	1 0.33 11.11 0.39	9 2.97
Moderate	0 0.00 0.00 0.00	4 1.32 11.11 80.00	1 0.33 2.78 9.09	19 6.27 52.78 63.33	12 3.96 33.33 4.69	36 11.88
High	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 0.66 0.79 18.18	9 2.97 3.54 30.00	243 80.20 95.67 94.92	254 83.83
Total	1 0.33	5 1.65	11 3.63	30 9.90	256 84.49	303 100.00
Frequency Missing = 10						

Table of q10l1 by q10l2				
q10l1(Experience A sense of vastness)	q10l2(Influence of A sense of vastness)			Total
Frequency Percent Row Pct Col Pct	Have no influence	Slightly improve	Greatly improve visit	
Slight	3 0.98 100.00 50.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	3 0.98
Moderate	1 0.33 5.26 16.67	14 4.56 73.68 60.87	4 1.30 21.05 1.44	19 6.19
High	2 0.65 0.70 33.33	9 2.93 3.16 39.13	274 89.25 96.14 98.56	285 92.83
Total	6 1.95	23 7.49	278 90.55	307 100.00
Frequency Missing = 6				

Table of q10m1 by q10m2						
q10m1(Experience Learning about nature)	q10m2(Influence of Learning about nature)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0	0	9	1	0	10
	0.00	0.00	2.94	0.33	0.00	3.27
	0.00	0.00	90.00	10.00	0.00	
	0.00	0.00	30.00	1.25	0.00	
Slight	1	1	14	13	4	33
	0.33	0.33	4.58	4.25	1.31	10.78
	3.03	3.03	42.42	39.39	12.12	
	100.00	100.00	46.67	16.25	2.06	
Moderate	0	0	7	61	49	117
	0.00	0.00	2.29	19.93	16.01	38.24
	0.00	0.00	5.98	52.14	41.88	
	0.00	0.00	23.33	76.25	25.26	
High	0	0	0	5	141	146
	0.00	0.00	0.00	1.63	46.08	47.71
	0.00	0.00	0.00	3.42	96.58	
	0.00	0.00	0.00	6.25	72.68	
Total	1	1	30	80	194	306
	0.33	0.33	9.80	26.14	63.40	100.00
Frequency Missing = 7						

Table of q10n1 by q10n2					
q10n1(Experience A sense of the Arctic)	q10n2(Influence of A sense of the Arctic)				Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Have no influence	Slightly improve	Greatly improve visit	
Not at all	1	3	0	0	4
	0.33	0.98	0.00	0.00	1.31
	25.00	75.00	0.00	0.00	
	100.00	18.75	0.00	0.00	
Slight	0	8	7	0	15
	0.00	2.62	2.30	0.00	4.92
	0.00	53.33	46.67	0.00	
	0.00	50.00	13.46	0.00	
Moderate	0	4	33	14	51
	0.00	1.31	10.82	4.59	16.72
	0.00	7.84	64.71	27.45	
	0.00	25.00	63.46	5.93	
High	0	1	12	222	235
	0.00	0.33	3.93	72.79	77.05
	0.00	0.43	5.11	94.47	
	0.00	6.25	23.08	94.07	
Total	1	16	52	236	305
	0.33	5.25	17.05	77.38	100.00
Frequency Missing = 8					

Table of q10o1 by q10o2					
q10o1(Experience A sense of humility)	q10o2(Influence of A sense of humility)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	0	33	0	1	34
	0.00	10.86	0.00	0.33	11.18
	0.00	97.06	0.00	2.94	
	0.00	50.77	0.00	0.59	
Slight	2	19	7	0	28
	0.66	6.25	2.30	0.00	9.21
	7.14	67.86	25.00	0.00	
	66.67	29.23	10.61	0.00	
Moderate	0	9	44	8	61
	0.00	2.96	14.47	2.63	20.07
	0.00	14.75	72.13	13.11	
	0.00	13.85	66.67	4.71	
High	1	4	15	161	181
	0.33	1.32	4.93	52.96	59.54
	0.55	2.21	8.29	88.95	
	33.33	6.15	22.73	94.71	
Total	3	65	66	170	304
	0.99	21.38	21.71	55.92	100.00
Frequency Missing = 9					

Table of q10p1 by q10p2					
q10p1(Experience History, a tie to the past)	q10p2(Influence of History, a tie to the past)				Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Have no influence	Slightly improve	Greatly improve visit	
Not at all	1	42	0	0	43
	0.33	13.73	0.00	0.00	14.05
	2.33	97.67	0.00	0.00	
	100.00	38.89	0.00	0.00	
Slight	0	58	35	2	95
	0.00	18.95	11.44	0.65	31.05
	0.00	61.05	36.84	2.11	
	0.00	53.70	30.70	2.41	
Moderate	0	8	74	15	97
	0.00	2.61	24.18	4.90	31.70
	0.00	8.25	76.29	15.46	
	0.00	7.41	64.91	18.07	
High	0	0	5	66	71
	0.00	0.00	1.63	21.57	23.20
	0.00	0.00	7.04	92.96	
	0.00	0.00	4.39	79.52	
Total	1	108	114	83	306
	0.33	35.29	37.25	27.12	100.00
Frequency Missing = 7					

Table of q10q1 by q10q2					
q10q1(Experience A sense of self-reliance)	q10q2(Influence of A sense of self-reliance)				Total
Frequency Percent Row Pct Col Pct	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	1 0.33 16.67 25.00	5 1.64 83.33 12.20	0 0.00 0.00 0.00	0 0.00 0.00 0.00	6 1.97
Slight	1 0.33 3.03 25.00	18 5.92 54.55 43.90	13 4.28 39.39 13.00	1 0.33 3.03 0.63	33 10.86
Moderate	0 0.00 0.00 0.00	15 4.93 13.89 36.59	75 24.67 69.44 75.00	18 5.92 16.67 11.32	108 35.53
High	2 0.66 1.27 50.00	3 0.99 1.91 7.32	12 3.95 7.64 12.00	140 46.05 89.17 88.05	157 51.64
Total	4 1.32	41 13.49	100 32.89	159 52.30	304 100.00
Frequency Missing = 9					

Table of q10r1 by q10r2						
q10r1(Experience A sense of uncertainty...small airplane)	q10r2(Influence of A sense of uncertainty...small airplane)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
Not at all	2 0.68 1.57 66.67	0 0.00 0.00 0.00	108 36.73 85.04 59.67	4 1.36 3.15 8.00	13 4.42 10.24 24.53	127 43.20
Slight	0 0.00 0.00 0.00	3 1.02 3.70 42.86	51 17.35 62.96 28.18	22 7.48 27.16 44.00	5 1.70 6.17 9.43	81 27.55
Moderate	0 0.00 0.00 0.00	4 1.36 7.14 57.14	19 6.46 33.93 10.50	19 6.46 33.93 38.00	14 4.76 25.00 26.42	56 19.05
High	1 0.34 3.33 33.33	0 0.00 0.00 0.00	3 1.02 10.00 1.66	5 1.70 16.67 10.00	21 7.14 70.00 39.62	30 10.20
Total	3 1.02	7 2.38	181 61.56	50 17.01	53 18.03	294 100.00
Frequency Missing = 19						

Additional Influences on the Experience

Q11 Additional Influences on the Experience

- 23% of respondents were negatively influenced by the behavior of visitors outside their group.
- 80% said that interaction with others in their own group was a positive influence on their experience.
- Use of technology was generally seen as a neutral or positive influence on their visit.

Q11. What type of influence did the following items have on your overall Arctic National Wildlife Refuge visit? (*Question 11 complete frequency distributions with sample sizes are included in appendix C*)

	Did this experience:				
	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
a. Behavior of visitors outside your group	3%	20%	65%	8%	3%
b. Amount of energy and resources that you invested to get to the refuge	3%	27%	35%	21%	16%
c. Interaction with others in your group	1%	6%	13%	27%	53%
d. Use of technology (GPS, satellite phone) by your group	1%	6%	49%	31%	13%
e. Use of technology by other groups	1%	4%	92%	3%	1%

Encounters

Q12 Encounters and Their Influence

Question 12 matrix of encounters and their effects

- Respondents encountered a median of one other group on their trip, saw or heard a median of three airplanes, and saw a median of one site with evidence of previous visitor use. The distributions of encounters are presented below within categories in the cross-tabulation tables for question 12. Appendix C provides complete frequency distributions and sample sizes for encounters.
- Those who encountered no or one other group found it to be a positive influence and those who encountered two or more groups found it a negative influence.

Q12. The following questions ask about various types of human encounters that you experienced on your Arctic National Wildlife Refuge visit.

(1) How many did you experience:		(2) Did the number of these encounters:				
	Mean/Median Total encountered on trip	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
a. Total number of other groups	1.8 1	4%	34%	39%	8%	15%
b. Groups at your access point	0.7 0	3%	19%	49%	7%	23%
c. Groups at your departure point	0.7 0	2%	15%	53%	8%	22%
d. Groups between your access and departure points	1.0 0	2%	22%	48%	7%	21%
e. Groups of seven or more	0.4 0	4%	14%	58%	4%	20%
f. Airplanes landing at access and departure points	1.6 1	4%	17%	59%	7%	14%
g. Airplanes (not high-altitude jets) seen or heard	4.4 3	10%	33%	48%	3%	5%
h. Helicopters seen or heard	0.2 0	3%	5%	68%	3%	20%
i. Refuge or law enforcement staff	0.4 0	1%	4%	73%	9%	13%
j. Evidence of previous campfires	0.8 0	3%	17%	55%	5%	20%
k. Evidence of previously used campsites	1.2 1	6%	20%	56%	3%	16%
l. Evidence of human waste or toilet paper	0.3 0	7%	7%	56%	4%	26%
m. Local residents engaged in subsistence activities	0.2 0	2%	1%	83%	4%	10%
n. Evidence of other visitors' impacts	1.1 1	10%	29%	43%	2%	16%

Table of q12a1 by q12a2						
q12a1(Total number of other groups encountered)	q12a2(Influence of Total number of other groups)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	52 16.72 54.74 42.98	6 1.93 6.32 24.00	37 11.90 38.95 77.08	95 30.55
1	2 0.64 2.74 16.67	27 8.68 36.99 25.71	32 10.29 43.84 26.45	6 1.93 8.22 24.00	6 1.93 8.22 12.50	73 23.47
2 - 3	5 1.61 5.43 41.67	45 14.47 48.91 42.86	30 9.65 32.61 24.79	8 2.57 8.70 32.00	4 1.29 4.35 8.33	92 29.58
4 or more	5 1.61 9.80 41.67	33 10.61 64.71 31.43	7 2.25 13.73 5.79	5 1.61 9.80 20.00	1 0.32 1.96 2.08	51 16.40
Total	12 3.86	105 33.76	121 38.91	25 8.04	48 15.43	311 100.00
Frequency Missing = 2						

Table of q12b1 by q12b2						
q12b1(Groups at your access point encountered)	q12b2(Influence of Groups at your access point)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	2 0.65 1.18 3.45	96 31.07 56.80 64.00	8 2.59 4.73 36.36	63 20.39 37.28 88.73	169 54.69
1	3 0.97 3.53 37.50	37 11.97 43.53 63.79	30 9.71 35.29 20.00	7 2.27 8.24 31.82	8 2.59 9.41 11.27	85 27.51
2 - 3	4 1.29 8.33 50.00	17 5.50 35.42 29.31	21 6.80 43.75 14.00	6 1.94 12.50 27.27	0 0.00 0.00 0.00	48 15.53
4 or more	1 0.32 14.29 12.50	2 0.65 28.57 3.45	3 0.97 42.86 2.00	1 0.32 14.29 4.55	0 0.00 0.00 0.00	7 2.27
Total	8 2.59	58 18.77	150 48.54	22 7.12	71 22.98	309 100.00
Frequency Missing = 4						

Table of q12c1 by q12c2						
q12c1(Groups at your departure point encountered)	q12c2(Influence of Groups at your departure point)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	111 36.51 60.99 68.94	11 3.62 6.04 45.83	60 19.74 32.97 88.24	182 59.87
1	2 0.66 3.03 33.33	25 8.22 37.88 55.56	28 9.21 42.42 17.39	5 1.64 7.58 20.83	6 1.97 9.09 8.82	66 21.71
2 - 3	2 0.66 4.17 33.33	17 5.59 35.42 37.78	21 6.91 43.75 13.04	7 2.30 14.58 29.17	1 0.33 2.08 1.47	48 15.79
4 or more	2 0.66 25.00 33.33	3 0.99 37.50 6.67	1 0.33 12.50 0.62	1 0.33 12.50 4.17	1 0.33 12.50 1.47	8 2.63
Total	6 1.97	45 14.80	161 52.96	24 7.89	68 22.37	304 100.00
Frequency Missing = 9						

Table of q12d1 by q12d2						
q12d1(Groups between...access and departure...encountered)	q12d2(Influence of Groups between...access and departure)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	90 29.41 57.69 61.22	4 1.31 2.56 20.00	62 20.26 39.74 95.38	156 50.98
1	2 0.65 2.82 33.33	29 9.48 40.85 42.65	31 10.13 43.66 21.09	6 1.96 8.45 30.00	3 0.98 4.23 4.62	71 23.20
2 - 3	2 0.65 3.33 33.33	27 8.82 45.00 39.71	23 7.52 38.33 15.65	8 2.61 13.33 40.00	0 0.00 0.00 0.00	60 19.61
4 or more	2 0.65 10.53 33.33	12 3.92 63.16 17.65	3 0.98 15.79 2.04	2 0.65 10.53 10.00	0 0.00 0.00 0.00	19 6.21
Total	6 1.96	68 22.22	147 48.04	20 6.54	65 21.24	306 100.00
Frequency Missing = 7						

Table of q12e1 by q12e2						
q12e1(Groups of seven or more encountered)	q12e2(Influence of Groups of seven or more)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	1 0.33 0.47 2.44	148 49.50 68.84 86.05	6 2.01 2.79 46.15	60 20.07 27.91 98.36	215 71.91
1	9 3.01 14.29 75.00	27 9.03 42.86 65.85	20 6.69 31.75 11.63	6 2.01 9.52 46.15	1 0.33 1.59 1.64	63 21.07
2 - 3	1 0.33 6.25 8.33	11 3.68 68.75 26.83	3 1.00 18.75 1.74	1 0.33 6.25 7.69	0 0.00 0.00 0.00	16 5.35
4 or more	2 0.67 40.00 16.67	2 0.67 40.00 4.88	1 0.33 20.00 0.58	0 0.00 0.00 0.00	0 0.00 0.00 0.00	5 1.67
Total	12 4.01	41 13.71	172 57.53	13 4.35	61 20.40	299 100.00
Frequency Missing = 14						

Table of q12f1 by q12f2						
q12f1(Airplanes landing at access and departure points encountered)	q12f2(Influence of Airplanes landing at access and departure points)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	75 25.34 63.56 42.86	7 2.36 5.93 35.00	36 12.16 30.51 87.80	118 39.86
1	1 0.34 1.47 9.09	16 5.41 23.53 32.65	43 14.53 63.24 24.57	5 1.69 7.35 25.00	3 1.01 4.41 7.32	68 22.97
2 - 3	1 0.34 1.41 9.09	19 6.42 26.76 38.78	42 14.19 59.15 24.00	7 2.36 9.86 35.00	2 0.68 2.82 4.88	71 23.99
4 or more	9 3.04 23.08 81.82	14 4.73 35.90 28.57	15 5.07 38.46 8.57	1 0.34 2.56 5.00	0 0.00 0.00 0.00	39 13.18
Total	11 3.72	49 16.55	175 59.12	20 6.76	41 13.85	296 100.00
Frequency Missing = 17						

Table of q12g1 by q12g2						
q12g1(Airplanes (not high-altitude jets) seen or heard)	q12g2(Influence of Airplanes (not high-altitude jets) seen or heard)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	31 10.37 67.39 21.68	1 0.33 2.17 11.11	14 4.68 30.43 87.50	46 15.38
1	1 0.33 2.94 3.23	12 4.01 35.29 12.00	18 6.02 52.94 12.59	2 0.67 5.88 22.22	1 0.33 2.94 6.25	34 11.37
2 - 3	6 2.01 6.45 19.35	34 11.37 36.56 34.00	48 16.05 51.61 33.57	4 1.34 4.30 44.44	1 0.33 1.08 6.25	93 31.10
4 or more	24 8.03 19.05 77.42	54 18.06 42.86 54.00	46 15.38 36.51 32.17	2 0.67 1.59 22.22	0 0.00 0.00 0.00	126 42.14
Total	31 10.37	100 33.44	143 47.83	9 3.01	16 5.35	299 100.00
Frequency Missing = 14						

Table of q12h1 by q12h2						
q12h1(Helicopters seen or heard)	q12h2(Influence of Helicopters seen or heard)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	1 0.32 0.36 10.00	1 0.32 0.36 6.25	201 65.05 73.09 95.26	10 3.24 3.64 100.00	62 20.06 22.55 100.00	275 89.00
1	4 1.29 20.00 40.00	9 2.91 45.00 56.25	7 2.27 35.00 3.32	0 0.00 0.00 0.00	0 0.00 0.00 0.00	20 6.47
2 - 3	4 1.29 30.77 40.00	6 1.94 46.15 37.50	3 0.97 23.08 1.42	0 0.00 0.00 0.00	0 0.00 0.00 0.00	13 4.21
4 or more	1 0.32 100.00 10.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	1 0.32
Total	10 3.24	16 5.18	211 68.28	10 3.24	62 20.06	309 100.00
Frequency Missing = 4						

Table of q12i1 by q12i2						
q12i1(Refuge or law enforcement staff encountered)	q12i2(Influence of Refuge or law enforcement staff)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	1 0.32 0.41 8.33	201 64.63 82.72 88.55	7 2.25 2.88 25.00	34 10.93 13.99 85.00	243 78.14
1	1 0.32 2.50 25.00	8 2.57 20.00 66.67	15 4.82 37.50 6.61	12 3.86 30.00 42.86	4 1.29 10.00 10.00	40 12.86
2 - 3	3 0.96 12.50 75.00	3 0.96 12.50 25.00	9 2.89 37.50 3.96	7 2.25 29.17 25.00	2 0.64 8.33 5.00	24 7.72
4 or more	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 0.64 50.00 0.88	2 0.64 50.00 7.14	0 0.00 0.00 0.00	4 1.29
Total	4 1.29	12 3.86	227 72.99	28 9.00	40 12.86	311 100.00
Frequency Missing = 2						

Table of q12j1 by q12j2						
q12j1(Evidence of previous campfires encountered)	q12j2(Influence of Evidence of previous campfires)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	1 0.33 0.54 1.92	113 37.05 60.75 67.66	12 3.93 6.45 85.71	60 19.67 32.26 96.77	186 60.98
1	3 0.98 5.00 30.00	27 8.85 45.00 51.92	27 8.85 45.00 16.17	1 0.33 1.67 7.14	2 0.66 3.33 3.23	60 19.67
2 - 3	6 1.97 12.77 60.00	20 6.56 42.55 38.46	20 6.56 42.55 11.98	1 0.33 2.13 7.14	0 0.00 0.00 0.00	47 15.41
4 or more	1 0.33 8.33 10.00	4 1.31 33.33 7.69	7 2.30 58.33 4.19	0 0.00 0.00 0.00	0 0.00 0.00 0.00	12 3.93
Total	10 3.28	52 17.05	167 54.75	14 4.59	62 20.33	305 100.00
Frequency Missing = 8						

Table of q12k1 by q12k2						
q12k1(Evidence of previously used campsites encountered)	q12k2(Influence of Evidence of previously used campsites)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	78 25.41 59.09 45.35	5 1.63 3.79 62.50	49 15.96 37.12 98.00	132 43.00
1	9 2.93 11.25 52.94	26 8.47 32.50 43.33	43 14.01 53.75 25.00	1 0.33 1.25 12.50	1 0.33 1.25 2.00	80 26.06
2 - 3	5 1.63 7.69 29.41	25 8.14 38.46 41.67	34 11.07 52.31 19.77	1 0.33 1.54 12.50	0 0.00 0.00 0.00	65 21.17
4 or more	3 0.98 10.00 17.65	9 2.93 30.00 15.00	17 5.54 56.67 9.88	1 0.33 3.33 12.50	0 0.00 0.00 0.00	30 9.77
Total	17 5.54	60 19.54	172 56.03	8 2.61	50 16.29	307 100.00
Frequency Missing = 6						

Table of q1211 by q1212						
q1211(Evidence of human waste or toilet paper encountered)	q1212(Influence of Evidence of human waste or toilet paper)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	1 0.32 0.39 4.76	0 0.00 0.00 0.00	166 53.72 64.09 95.40	12 3.88 4.63 100.00	80 25.89 30.89 100.00	259 83.82
1	10 3.24 32.26 47.62	16 5.18 51.61 72.73	5 1.62 16.13 2.87	0 0.00 0.00 0.00	0 0.00 0.00 0.00	31 10.03
2 - 3	9 2.91 60.00 42.86	4 1.29 26.67 18.18	2 0.65 13.33 1.15	0 0.00 0.00 0.00	0 0.00 0.00 0.00	15 4.85
4 or more	1 0.32 25.00 4.76	2 0.65 50.00 9.09	1 0.32 25.00 0.57	0 0.00 0.00 0.00	0 0.00 0.00 0.00	4 1.29
Total	21 6.80	22 7.12	174 56.31	12 3.88	80 25.89	309 100.00
Frequency Missing = 4						

Table of q12m1 by q12m2						
q12m1(Local residents engaged in subsistence activities encountered)	q12m2(Influence of Local residents engaged in subsistence activities)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	3 0.97 1.03 60.00	1 0.32 0.34 33.33	250 80.91 86.21 97.28	7 2.27 2.41 58.33	29 9.39 10.00 90.63	290 93.85
1	0 0.00 0.00 0.00	0 0.00 0.00 0.00	6 1.94 75.00 2.33	1 0.32 12.50 8.33	1 0.32 12.50 3.13	8 2.59
2 - 3	1 0.32 14.29 20.00	1 0.32 14.29 33.33	1 0.32 14.29 0.39	3 0.97 42.86 25.00	1 0.32 14.29 3.13	7 2.27
4 or more	1 0.32 25.00 20.00	1 0.32 25.00 33.33	0 0.00 0.00 0.00	1 0.32 25.00 8.33	1 0.32 25.00 3.13	4 1.29
Total	5 1.62	3 0.97	257 83.17	12 3.88	32 10.36	309 100.00
Frequency Missing = 4						

Table of q12n1 by q12n2						
q12n1(Evidence of other visitors' impacts encountered)	q12n2(Influence of Evidence of other visitors' impacts)					Total
Frequency Percent Row Pct Col Pct	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
0	0 0.00 0.00 0.00	0 0.00 0.00 0.00	94 31.33 64.83 73.44	4 1.33 2.76 57.14	47 15.67 32.41 95.92	145 48.33
1	15 5.00 20.55 50.00	40 13.33 54.79 46.51	15 5.00 20.55 11.72	2 0.67 2.74 28.57	1 0.33 1.37 2.04	73 24.33
2 - 3	12 4.00 20.00 40.00	33 11.00 55.00 38.37	13 4.33 21.67 10.16	1 0.33 1.67 14.29	1 0.33 1.67 2.04	60 20.00
4 or more	3 1.00 13.64 10.00	13 4.33 59.09 15.12	6 2.00 27.27 4.69	0 0.00 0.00 0.00	0 0.00 0.00 0.00	22 7.33
Total	30 10.00	86 28.67	128 42.67	7 2.33	49 16.33	300 100.00
Frequency Missing = 13						

Objective Four: Evaluation of Management and Visitor Experiences

The fourth objective of the study was to evaluate how visitor experiences at the Arctic Refuge are protected, enhanced, or negatively influenced by various environmental, managerial, or social conditions. Descriptive results for questions 14, 16, and 18 are presented first under this objective. Most of the results of the study provide insight under this objective. Questions 10 through 12, presented under objective 3, are particularly oriented to understanding visitor experiences and influences on experiences. Question 19 is an open ended “What would you like to tell us?” question. It is categorized and summarized to provide additional qualitative information about visitors’ perspectives on appropriate management. Comparisons of questions 14, 16, and 18 across groups of interest also provide insight within this objective about orientations toward management issues.

Appropriateness of Visitor and Management Activities

Question 14 addresses visitor opinions about the appropriateness of various visitor and management activities at the Arctic Refuge. The table below lists overall frequencies. (*Complete frequency tables with sample sizes are included in appendix C*)

- 85% of respondents feel that organized events are inappropriate or very inappropriate at the Arctic Refuge
- Helicopters are generally seen as inappropriate forms of access by the public
- Small airplanes are viewed as appropriate for access but not for sightseeing or wildlife viewing

Q14. To what degree do you consider the following appropriate or inappropriate in the Arctic National Wildlife Refuge?

	Very Inappropriate	Inappropriate	Neutral	Appropriate	Very Appropriate
a. Organized events like competitive racing	65%	20%	10%	3%	1%
b. Installations such as weather stations for monitoring purposes	13%	22%	31%	27%	7%
c. Use of aircraft for viewing wildlife	40%	26%	16%	15%	3%
d. Use of aircraft for sightseeing	37%	24%	21%	15%	5%
e. Use of helicopters for public access	44%	21%	18%	13%	4%
f. Use of airplanes for public access	4%	5%	18%	42%	31%
g. Use of helicopters by the agency for conducting studies	11%	14%	24%	37%	14%
h. Use of helicopters by the agency for tours by public officials	28%	23%	25%	19%	6%

Management Options

Question 16 asks for opinions about a number of management options. The table below lists overall frequencies. *(Complete frequency tables with sample sizes are included in appendix C)*

- Respondents generally support limitations that protect the experience or the environment, but they generally do not support site hardening, predator control, or other efforts that change the features of the environment.
- 83% indicate at least some support for limiting campfire use in the Arctic Refuge
- Similar levels of support are shown for limiting aircraft landings in certain areas (establishing zones); increasing information about the refuge's history, wildlife, ecology, and wilderness; and temporarily closing areas to heal previous human impacts

Q16. Tell us how you feel about the following management options for the Arctic National Wildlife Refuge.

	Strongly oppose	Oppose	Neutral	Support	Strongly support
a. Limit campfires where sustainability of wood is a concern	4%	5%	12%	28%	51%
b. Require use of bear-resistant containers	11%	19%	23%	22%	25%
c. Require packing out human solid waste where accumulation is a concern	9%	10%	16%	33%	32%
d. Establish zones where aircraft landings are limited	7%	9%	10%	31%	43%
e. Limit aircraft landings on vegetated surfaces where scarring may occur	5%	9%	15%	29%	43%
f. Require visitors to register before entering the refuge	10%	12%	26%	30%	23%
g. Increase presence of law enforcement	15%	27%	41%	15%	2%
h. Increase information about trip planning and travel within the refuge	7%	12%	44%	30%	7%
i. Increase information about the refuge's history, wildlife, ecology, and wilderness	2%	2%	20%	49%	28%
j. Temporarily close areas to heal previous human impacts	5%	9%	16%	38%	32%

Q16. <i>(continued)</i>	Strongly oppose	Oppose	Neutral	Support	Strongly support
k. Require camping on gravel or other durable surfaces when available	5%	10%	19%	33%	33%
l. Manipulate habitat to increase the number of animals of a favored species	49%	28%	15%	6%	1%
m. Predator control to increase the number of animals of a favored species	59%	17%	12%	8%	5%
n. Predator control to increase the number of animals favored for hunting	71%	10%	6%	6%	7%
o. Establish trails	65%	20%	11%	4%	0%
p. Install directional signs	72%	16%	9%	2%	0%
q. Develop camp sites at popular access and departure locations	47%	21%	17%	12%	3%
r. Provide 'port-a-potties' at heavily used access and departure locations	41%	17%	17%	19%	6%
s. Naming features or places that are currently nameless	51%	17%	29%	3%	0%
t. Construct bridges for safe river crossings	65%	24%	8%	2%	1%
u. Construct public-use cabins	64%	21%	9%	5%	2%
v. For high-use rivers, establish a system to limit encounters between groups	9%	12%	26%	35%	18%

Limiting Use

Questions 17 and 18 – Opinions about limiting use at the Arctic Refuge

- If use needs to be limited in some areas, who should have preference in a limited use situation? - 69% say everyone should have equal access while 24% say individuals should have preference over commercially outfitted parties (Q17).

If you feel....use of the AR may need to be limited...(who) should have preference		
q17	Frequency	Percent
Clients of commercial operators	19	6.11
Do-it-yourself individuals / groups	76	24.44
Everyone should have equal opportunity	216	69.45

Frequency Missing = 2

- 82% of respondents support group size limits (Q18a)

Do you support group size limits for the refuge		
q18	Frequency	Percent
No	56	18.42
Yes	248	81.58

Frequency Missing = 9

- Of those 82% who do support limits, the median preferred group size is nine for floaters, eight for backpackers, and eight for base campers (Q18b)

Q18b Variable:	Mean	Median	Sample Size
group size limits for Float trips:	9.1	9	241
group size limits for Backpacking trips:	7.5	8	242
group size limits for Base Camping (at one location):	8.7	8	240

Written Comments

Written (typed) open-ended comments received under question 19 along with general comments from the back of the survey or elsewhere are organized by major topic and presented in their complete form in appendix C. Valuable feedback was provided by many of the respondents. These comments were obtained from the following four sources: (1) q19 “What should the refuge management do, or avoid doing, to enhance or protect the kind of experiences you desire? What else would you like to tell us about your experience, the refuge, or its future”; (2) requests at the end of the surveys to either “Please use the remaining space on the back to make any further comments” (mail copy) or “Please contribute any further comments below” (Email copy); (3) comments hand written into the margins of the mail survey; and (4) comments in Email messages either sent back with a survey or, in a few cases, sent back on their own. Many of the comments included more than one topic, but to preserve their overall context and meaning, all of the comments from a respondent are included together under one response category. Therefore, the following categorization by major topic is somewhat subjective as comments with multiple topics could be assigned to different major categories than presented here. Appendix C contains comments arranged under these headings, and within the headings, by hunter/non-hunter and guided/non-guided categories. Topics and their frequency include:

Q19 Comment Categorization	Frequency
About Management	
Wilderness Protection (in general)	22
Experiences	25
Resources	18
Oil Drilling	19
Animals	7
General Management Advice	37
Communication	14
Limit Use (in general)	8
Limit People	14
Limit Access	4
Limit Aircraft	10
Views on Hunting Management (general)	13
Enforcement & Compliance	6
Change Guides/Outfitters	4
Specific Development	15
Not About Management	
Positive Experience	13
Comment about Survey	35
Other	2

Characteristics and Views about Management by Visitor Type

Characteristics of visitors and their correspondence with hunter/non-hunter and guided/non-guided visitors are presented under objective two. Comparisons of their views about management are presented here. (*see objective one and two to review visit/visitor characteristics*).

- While the entry point patterns are very similar across different groups, hunters are less likely to use the Canning, Hulahula, or Atigun than others.

Q2 Entry Point - Top Five Overall	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
Kongakut	27%	27%	26%	21%	31%
Canning	18%	20%	9%	9%	25%
Hulahula	13%	14%	8%	11%	14%
Atigun	7%	8%	4%	11%	4%
Wind R	6%	5%	11%	10%	5%

- A higher percentage of hunters used a private plane for access

Table of q1 by q4c			
q1(How did you access the AR)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Non-Hunter	Hunter	
Fly-in by chartered plane	198 64.50 78.88 81.82	53 17.26 21.12 81.54	251 81.76
Hike in from Dalton Highway	23 7.49 88.46 9.50	3 0.98 11.54 4.62	26 8.47
Fly-in by private plane	12 3.91 57.14 4.96	9 2.93 42.86 13.85	21 6.84
Access by raft/kayak/canoe	8 2.61 100.00 3.31	0 0.00 0.00 0.00	8 2.61
Other (specify)	1 0.33 100.00 0.41	0 0.00 0.00 0.00	1 0.33
Total	242 78.83	65 21.17	307 100.00
Frequency Missing = 6			

- A higher percentage of non-guided respondents hiked in from the haul road (Dalton Highway) or flew in by private plane.

Table of q1 by q6a			
q1(How did you access the AR)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Fly-in by chartered plane	146 47.87 58.63 88.48	103 33.77 41.37 73.57	249 81.64
Hike in from Dalton Highway	8 2.62 30.77 4.85	18 5.90 69.23 12.86	26 8.52
Fly-in by private plane	6 1.97 28.57 3.64	15 4.92 71.43 10.71	21 6.89
Access by raft/kayak/canoe	4 1.31 50.00 2.42	4 1.31 50.00 2.86	8 2.62
Other (specify)	1 0.33 100.00 0.61	0 0.00 0.00 0.00	1 0.33
Total	165 54.10	140 45.90	305 100.00
Frequency Missing = 8			

Top Six Primary Reasons for AR Trip (Q5)	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
Recreation, vacation, visit, sightseeing, exploration, pleasure, enjoyment, fun, rest and relaxation	30%	38%	5%	26%	34%
Hunting	19%	1%	85%	29%	11%
Wilderness and Nature Experience	18%	22%	3%	13%	23%
Backpacking, Hiking	11%	13%	2%	11%	10%
Commercial Activities	5%	6%	2%	4%	5%
Boating	4%	4%	3%	4%	4%

- Hunters have smaller average group sizes.

Q6 Trip Characteristics (mean)	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
Q6c - number in group	5.8	6.4	3.4	4.3	6.9
Q6d - days in the refuge	10.7	10.8	10.2	10.8	10.6
Q6e - number of places camped	5.9	6.5	3.6	6.0	5.8

Q7 Low Impact Practices	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
a. Camp on gravel bar or bare ground					
Always	52%	47%	71%	51%	54%
Usually	23%	25%	15%	24%	21%
Sometimes	18%	21%	6%	20%	16%
Never	7%	7%	8%	5%	9%
b. Use a campfire					
Always	14%	12%	21%	8%	21%
Usually	8%	7%	12%	6%	11%
Sometimes	25%	21%	39%	23%	27%
Never	53%	60%	27%	63%	41%
c. Bury solid human waste					
Always	82%	83%	82%	81%	84%
Usually	6%	5%	9%	4%	8%
Sometimes	3%	2%	5%	4%	2%
Never	9%	10%	5%	11%	6%

Q14 Views on appropriate use of the AR	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
Sample by category (% / n):	313	79% / 247	21% / 66	54% / 169	46% / 144

Q14. - Mean score (on a scale from -2, Very Inappropriate to +2, Very Appropriate)

a. Organized events like competitive racing	-1.4	-1.6	-0.9	-1.3	-1.6
b. Installations such as weather stations for monitoring purposes	-0.1	-0.1	0.2	0.0	-0.1
c. Use of aircraft for viewing wild life	-0.9	-1.0	-0.1	-0.6	-1.0
d. Use of aircraft for sightseeing	-0.7	-1.0	0.2	-0.4	-1.0
e. Use of helicopters for public access	-0.9	-1.0	-0.6	-0.8	-0.9
f. Use of airplanes for public access	0.9	0.8	1.3	1.0	0.8
g. Use of helicopters by the agency for conducting studies	0.3	0.2	0.5	0.3	0.3
h. Use of helicopters by the agency for tours by public officials	-0.5	-0.5	-0.5	-0.5	-0.4

Q16 Support for management options	Overall	Non-Hunter	Hunter	Non-Guided	Guided/Outfitted
Q16: - Mean score (on a scale from -2, Strongly oppose to +2, Strongly support)					
a. Limit campfires where sustainability of wood is a concern	1.2	1.4	0.3	0.9	1.4
b. Require use of bear-resistant containers	0.3	0.5	-0.5	-0.1	0.7
c. Require packing out human solid waste where accumulation is a concern	0.7	0.9	-0.3	0.4	0.9
d. Establish zones where aircraft landings are limited	1.0	1.2	0.0	0.7	1.2
e. Limit aircraft landings on vegetated surfaces where scarring may occur	0.9	1.2	0.0	0.7	1.2
f. Require visitors to register before entering the refuge	0.4	0.7	-0.5	0.0	0.8
g. Increase presence of law enforcement	-0.4	-0.4	-0.5	-0.5	-0.3
h. Increase information about trip planning and travel within the refuge	0.2	0.2	0.0	0.0	0.3
i. Increase information about the refuge's history, wildlife, ecology, and wilderness	1.0	1.1	0.5	0.8	1.1
j. Temporarily close areas to heal previous human impacts	0.8	1.1	-0.3	0.5	1.1
k. Require camping on gravel or other durable surfaces when available	0.8	1.0	0.0	0.6	1.0
l. Manipulate habitat to increase the number of animals of a favored species	-1.2	-1.4	-0.4	-1.1	-1.2
m. Predator control to increase the number of animals of a favored species	-1.2	-1.6	0.3	-1.1	-1.2
n. Predator control to increase the number of animals favored for hunting	-1.3	-1.8	0.4	-1.1	-1.5
o. Establish trails	-1.5	-1.6	-1.1	-1.4	-1.5
p. Install directional signs	-1.6	-1.7	-1.3	-1.5	-1.6
q. Develop camp sites at popular access and departure locations	-1.0	-1.0	-0.8	-0.9	-1.0
r. Provide 'port-a-potties' at heavily used access and departure locations	-0.7	-0.7	-0.5	-0.7	-0.7
s. Naming features or places that are currently nameless	-1.1	-1.2	-0.9	-1.1	-1.1
t. Construct bridges for safe river crossings	-1.5	-1.6	-1.3	-1.4	-1.6
u. Construct public-use cabins	-1.4	-1.5	-1.1	-1.4	-1.4
v. For high-use rivers, establish a system to limit encounters between groups	0.4	0.6	-0.2	0.1	0.7

Appendix A: Visitor Survey Registration Card

Your Name: _____

Mailing Address: _____

Email address: _____

please print contact information clearly

Would you prefer to receive a survey about your trip to the Arctic National Wildlife Refuge by postal mail (*US only*) or email?

☐ Postal mail

☐ Email

What day did you first enter the refuge on this trip?

Trip start date: (*mm/dd/yyyy*) ____/____/____

How long are you spending in the refuge on this trip? _____ *day(s)*

At what location did you
receive this registration card? _____

How did you obtain this registration card?

☐ air service/pilot

☐ information kiosk

☐ Other

How many are in your travel group, including yourself? _____ *group size*

At what place or drainage are you
starting your trip to the refuge? _____

At what place or drainage are you
ending your trip to the refuge? _____

What is your primary purpose for
visiting the refuge on this trip? _____

seal top edge here

**Arctic National Wildlife Refuge
visitor survey registration card**

Your participation in this survey will help the Refuge identify the types of experiences visitors come seeking, and examine the qualities and management options that may either contribute to or detract from those experiences. The information and opinions collected from you and others through this survey will be used to inform upcoming planning processes that will help shape the future of the Arctic Refuge.

Please fill out the registration information on the inside of this card, peel and seal the inside edge, and drop the card in any US mailbox. Your personal information will be kept confidential and will only be used for the purpose of contacting you for the visitor survey. You will receive a visitor survey by your preferred method within the next two months. Your answers to the survey will remain anonymous.

OMB #0596-0208, Exp. 01/31/2011

Aldo Leopold Wilderness Research Institute
US Departments of the Interior and Agriculture
790 E. Beckwith Ave.
Missoula, Montana 59801

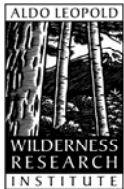
Arctic National Wildlife Refuge



Image © 1993 by Dixon J. Jones

Visitor Survey

2008 Season



Aldo Leopold Wilderness Research Institute
790 E. Beckwith Ave.
Missoula, Montana 59801

Thank you for your time on this survey. Please answer every question to ensure the accuracy and value of the study results. If you traveled to the Arctic Refuge more than once in 2008, fill out this survey based on your **first visit of the year**.

Participation in this study is voluntary and your answers will remain anonymous. It is important that the person who was sent this survey answer the questions.

Q1. How did you access the Arctic National Wildlife Refuge?

(circle one response)

1. Fly-in by chartered plane
2. Fly-in by private plane
3. Hike in from Dalton Highway
4. Hike in from a local village
5. Access by motorized boat
6. Access by raft/kayak/canoe
7. Other (specify) _____

Q2. At what place in the refuge or within what drainage did you start your trip?

(specify) _____

or

☐ Don't know / don't remember

Q3. At what place in the refuge or within what drainage did you end your trip?

(specify) _____

or

☐ Don't know / don't remember

Q4. What activities did you participate in at the Arctic National Wildlife Refuge during this trip? (check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Backpacking | <input type="checkbox"/> Boating - motorized |
| <input type="checkbox"/> Day hiking | <input type="checkbox"/> Boating – non-motorized |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Observing wildlife |
| <input type="checkbox"/> Camping | <input type="checkbox"/> Birding |
| <input type="checkbox"/> Mountain climbing | <input type="checkbox"/> Photography |
| <input type="checkbox"/> Fishing | |
| <input type="checkbox"/> Other (specify) _____ | |

Q5. What was your primary purpose for visiting the refuge on this trip?

Q6a. Did you use the services of a commercial guide or outfitter on this trip?

(circle one response)

1. Yes

2. No

Q6b. Were you working as a guide on this trip? (circle one response)

1. Yes

2. No

Q6c. How many were in your group, including yourself? _____

Q6d. How long did you spend in the refuge on this trip? _____ day(s)

Q6e. How many places did you camp in the refuge? _____

Q7. How often did you do the following while camping? (*Circle one response for each statement. If you did not camp in the refuge skip to Question 8*)

	Always	Usually	Sometimes	Never
a. Camp on gravel bar or bare ground	3	2	1	0
b. Use a campfire	3	2	1	0
c. Bury solid human waste	3	2	1	0

Q8a. What techniques did you use to protect yourself from, or reduce your likelihood of interactions with, bears or other animals?

Q8b. Did you have a wildlife encounter you considered menacing or threatening to you? (*circle one response*)

1. No

2. Yes → If you had a menacing or threatening wildlife encounter, where did it occur and what happened?

Q9a. Rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge. (*circle one response for each type of influence on your decision*)

	No Influence	Slight Influence	Moderate Influence	High Influence
a. Magazine, newspaper, or other media descriptions of the refuge	0	1	2	3
b. The Arctic Refuge's brochures and other printed information	0	1	2	3
c. The Arctic Refuge's web site	0	1	2	3
d. Personal contact with Refuge staff	0	1	2	3
e. National publicity related to the oil development issue	0	1	2	3
f. Information from commercial guides or outfitters	0	1	2	3
g. The refuge's wilderness character	0	1	2	3
h. Opportunity to see wildlife	0	1	2	3
i. The opportunity to experience solitude	0	1	2	3
j. Other (<i>specify</i>) _____	0	1	2	3

Q9b. If you were hunting, rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge. (*circle one response for each type of influence on your decision*)

	No Influence	Slight Influence	Moderate Influence	High Influence
a. Opportunity to harvest a trophy animal	0	1	2	3
b. The opportunity to procure meat	0	1	2	3
c. The opportunity to hunt in a wild, natural, and remote area	0	1	2	3
d. A lower probability of encountering other hunters than elsewhere	0	1	2	3
e. Opportunity to hunt a unique species not available at home	0	1	2	3
f. Other (<i>specify</i>) _____	0	1	2	3

Q10. The following questions ask about various components of your Arctic National Wildlife Refuge visit. (circle one scale response each in columns (1) and (2))

(1) Did you experience:					(2) Did this experience:				
Not at all	Slight	Moderate	High	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit	
a. A sense of adventure	0	1	2	3	-2	-1	0	1	2
b. Freedom to change travel route during trip	0	1	2	3	-2	-1	0	1	2
c. Remoteness and isolation	0	1	2	3	-2	-1	0	1	2
d. Solitude	0	1	2	3	-2	-1	0	1	2
e. Unpredictability of nature	0	1	2	3	-2	-1	0	1	2
f. Wilderness	0	1	2	3	-2	-1	0	1	2
g. Personal growth, increased awareness	0	1	2	3	-2	-1	0	1	2
h. Connection and immersion with nature	0	1	2	3	-2	-1	0	1	2
i. Time for reflection, contemplation	0	1	2	3	-2	-1	0	1	2
j. The presence of wildlife	0	1	2	3	-2	-1	0	1	2
k. Natural conditions, unaltered by civilization	0	1	2	3	-2	-1	0	1	2
l. A sense of vastness	0	1	2	3	-2	-1	0	1	2

Q10. (continued)

(1) Did you experience:					(2) Did this experience:				
Not at all	Slight	Moderate	High		Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
m. Learning about nature	0	1	2	3	-2	-1	0	1	2
n. A sense of the Arctic	0	1	2	3	-2	-1	0	1	2
o. A sense of humility	0	1	2	3	-2	-1	0	1	2
p. History, a tie to the past	0	1	2	3	-2	-1	0	1	2
q. A sense of self-reliance	0	1	2	3	-2	-1	0	1	2
r. A sense of uncertainty flying in a small airplane	0	1	2	3	-2	-1	0	1	2

Q11. What type of influence did the following items have on your overall Arctic National Wildlife Refuge visit? (circle one scale response for each item).

	Did this experience:				
	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve	Greatly improve visit
a. Behavior of visitors outside your group	-2	-1	0	1	2
b. Amount of energy and resources that you invested to get to the refuge	-2	-1	0	1	2
c. Interaction with others in your group	-2	-1	0	1	2
d. Use of technology (GPS, satellite phone) by your group	-2	-1	0	1	2
e. Use of technology by other groups	-2	-1	0	1	2

Q12. The following questions ask about various types of human encounters that you experienced on your Arctic National Wildlife Refuge visit. *(write your best estimate in column (1) and circle one scale response in column (2))*

(1) How many did you experience:		(2) Did the number of these encounters:				
	Total encountered on trip	Greatly detract from visit	Slightly detract	Have no influence	Slightly improve visit	Greatly improve visit
a. Total number of other groups	_____	-2	-1	0	1	2
b. Groups at your access point	_____	-2	-1	0	1	2
c. Groups at your departure point	_____	-2	-1	0	1	2
d. Groups between your access and departure points	_____	-2	-1	0	1	2
e. Groups of seven or more	_____	-2	-1	0	1	2
f. Airplanes landing at access and departure points	_____	-2	-1	0	1	2
g. Airplanes (not high-altitude jets) seen or heard	_____	-2	-1	0	1	2
h. Helicopters seen or heard	_____	-2	-1	0	1	2
i. Refuge or law enforcement staff	_____	-2	-1	0	1	2
j. Evidence of previous campfires	_____	-2	-1	0	1	2
k. Evidence of previously used campsites	_____	-2	-1	0	1	2
l. Evidence of human waste or toilet paper	_____	-2	-1	0	1	2
m. Local residents engaged in subsistence activities	_____	-2	-1	0	1	2
n. Evidence of other visitors' impacts	_____	-2	-1	0	1	2

Q13. How **important** do you believe each of the following is as a purpose of the Arctic Refuge? *(circle one response for each value that best represents the importance you place on it)*

	Not at all Important	Slightly Important	Moderately Important	Very Important
a. A place for recreation	0	1	2	3
b. A place for wildlife	0	1	2	3
c. A place of high economic value for tourism and guiding	0	1	2	3
d. A place of high economic value for energy development	0	1	2	3
e. A place for wilderness	0	1	2	3
f. A place for scientists to study natural processes	0	1	2	3
g. Just knowing that it is there, whether or not you visit again	0	1	2	3
h. A place for reflection and contemplation	0	1	2	3
i. A place that requires self-reliance	0	1	2	3
j. A place where you have the freedom to go where you want	0	1	2	3
k. A place to perpetuate America's exploration history and cultural heritage	0	1	2	3
l. Adventure	0	1	2	3
m. Remoteness and isolation	0	1	2	3
n. A place to learn about nature	0	1	2	3
o. A representation of the Arctic	0	1	2	3
p. A place for humility	0	1	2	3
q. A place for quiet and natural sounds	0	1	2	3
r. A place for solitude	0	1	2	3
s. A place for opportunities to perpetuate subsistence and Native culture	0	1	2	3
t. A bequest to future generations	0	1	2	3

Q13. (continued)

	<u>Not at all</u> <u>Important</u>	<u>Slightly</u> <u>Important</u>	<u>Moderately</u> <u>Important</u>	<u>Very</u> <u>Important</u>
u. A place to understand the effects of climate change	0	1	2	3
v. A place that protects water and air quality	0	1	2	3
w. A sacred place	0	1	2	3
x. A place that provides baseline comparison to study the effects of human actions on the environment	0	1	2	3
y. An environment largely free of the reminders of modern society	0	1	2	3
z. A place where natural process continue, without human control or manipulation	0	1	2	3
aa. A place to discover unknown or nameless areas and features	0	1	2	3
bb. A place for restraint of human activities, and therefore, limited addition to climate change effects	0	1	2	3

Q14. To what degree do you consider the following appropriate or inappropriate in the Arctic National Wildlife Refuge? (circle one scale response for each item)

	<u>Very</u> <u>Inappropriate</u>	<u>Inappropriate</u>	<u>Neutral</u>	<u>Appropriate</u>	<u>Very</u> <u>Appropriate</u>
a. Organized events like competitive racing	-2	-1	0	1	2
b. Installations such as weather stations for monitoring purposes	-2	-1	0	1	2
c. Use of aircraft for viewing wildlife	-2	-1	0	1	2
d. Use of aircraft for sightseeing	-2	-1	0	1	2
e. Use of helicopters for public access	-2	-1	0	1	2
f. Use of airplanes for public access	-2	-1	0	1	2
g. Use of helicopters by the agency for conducting studies	-2	-1	0	1	2
h. Use of helicopters by the agency for tours by public officials	-2	-1	0	1	2

Q15. How much do you **agree or disagree** with each of the following statements about the Arctic National Wildlife Refuge? *(circle one response for each statement that best represents your level of agreement)*

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. I identify strongly with the Arctic National Wildlife Refuge	-2	-1	0	1	2
b. I am not very attached to the Arctic National Wildlife Refuge	-2	-1	0	1	2
c. I feel like the Arctic National Wildlife Refuge is a part of me	-2	-1	0	1	2
d. The Arctic National Wildlife Refuge is the best place to do what I did on this trip	-2	-1	0	1	2
e. The Arctic National Wildlife Refuge is very special to me	-2	-1	0	1	2
f. I could substitute another place for doing the types of things I did on this trip	-2	-1	0	1	2
g. I get more satisfaction out of visiting the Arctic National Wildlife Refuge than any other place	-2	-1	0	1	2
h. Doing what I do at the Arctic National Wildlife Refuge is more important to me than doing it anywhere else	-2	-1	0	1	2

Q16. Tell us how you feel about the following management options for the Arctic National Wildlife Refuge. *(circle one scale response for each item)*

	Strongly oppose	Oppose	Neutral	Support	Strongly support
a. Limit campfires where sustainability of wood is a concern	-2	-1	0	1	2
b. Require use of bear-resistant containers	-2	-1	0	1	2
c. Require packing out human solid waste where accumulation is a concern	-2	-1	0	1	2
d. Establish zones where aircraft landings are limited	-2	-1	0	1	2
e. Limit aircraft landings on vegetated surfaces where scarring may occur	-2	-1	0	1	2

Q16. (continued)

	Strongly oppose	Oppose	Neutral	Support	Strongly support
f. Require visitors to register before entering the refuge	-2	-1	0	1	2
g. Increase presence of law enforcement	-2	-1	0	1	2
h. Increase information about trip planning and travel within the refuge	-2	-1	0	1	2
i. Increase information about the refuge's history, wildlife, ecology, and wilderness	-2	-1	0	1	2
j. Temporarily close areas to heal previous human impacts	-2	-1	0	1	2
k. Require camping on gravel or other durable surfaces when available	-2	-1	0	1	2
l. Manipulate habitat to increase the number of animals of a favored species	-2	-1	0	1	2
m. Predator control to increase the number of animals of a favored species	-2	-1	0	1	2
n. Predator control to increase the number of animals favored for hunting	-2	-1	0	1	2
o. Establish trails	-2	-1	0	1	2
p. Install directional signs	-2	-1	0	1	2
q. Develop camp sites at popular access and departure locations	-2	-1	0	1	2
r. Provide 'port-a-potties' at heavily used access and departure locations	-2	-1	0	1	2
s. Naming features or places that are currently nameless	-2	-1	0	1	2
t. Construct bridges for safe river crossings	-2	-1	0	1	2
u. Construct public-use cabins	-2	-1	0	1	2
v. For high-use rivers, establish a system to limit encounters between groups	-2	-1	0	1	2

Q17. If you feel that now or in the future use of the Arctic National Wildlife Refuge may need to be limited in some areas, which visitors should have preference? (circle one number that best represents your opinion)

1. Clients of commercial operators
2. Do-it-yourself individuals / groups
3. Everyone should have equal opportunity

Q18. Do you support group size limits for the refuge? *(circle the appropriate response)*

1. No
2. Yes → If you support a group size limit, what is the maximum number of people that should be permitted in any one party? *(enter a party size for each type of activity)*
 - a. Float trips: _____ people
 - b. Backpacking trips: _____ people
 - c. Base Camping *(at one location)*: _____ people

Q19. What should the refuge management do, or avoid doing, to enhance or protect the kind of experiences you desire? What else would you like to tell us about your experience, the refuge, or its future? *(continue on back if needed)*

Q20. How many times, including this trip, have you visited the Arctic National Wildlife Refuge in your lifetime?

_____ *trips*

Q21. How many trips, of any type, are you taking to the Arctic National Wildlife Refuge **this year**?

_____ *trips*

Q22. Do you think you will take another trip to the Arctic National Wildlife Refuge **after this year**, but within the **next five years**? (*circle one number and provide an explanation*)

1. No
2. Yes

→ Please indicate why or why not: _____

Q23. What was your age on your most recent birthday?

_____ *years*

Q24. Are you: (*circle one*)

1. Female
2. Male

Q25. What is the highest level of education you have attained? (*circle one number that best represents your education*)

1. Less than a high school diploma
2. High school graduate or GED
3. Trade or professional school
4. Some college
5. Four-year college degree
6. Some graduate school
7. Graduate degree (*specify*) _____

Q26. What is the zip code for your current residence? (*enter your 5-digit zip code*)

____ _

or if not within the US, name the country: _____

Q27a. What was your annual household income (US Dollars) in 2007 before taxes? (*circle one number*)

1. Less than \$25,000
2. \$25,000 to \$49,999
3. \$50,000 to \$74,999
4. \$75,000 to \$99,999
5. \$100,000 to \$149,999
6. \$150,000 to \$199,999
7. \$200,000 to \$249,999
8. \$250,000 or more

Q27b. How many people were supported by this household income in 2007?

_____ *people*

THANK YOU VERY MUCH FOR PARTICIPATING!

You may view the results of this study and comment on the public planning process at the Arctic National Wildlife Refuge website –

<http://arctic.fws.gov/index.htm>

The study results will be available in early 2009

Please use the remaining space on the back to make any further comments.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0596-0208, Exp. 01/31/2011), Washington, DC 20503.

Appendix C: Detailed Results

Question 4 frequency distributions:

Q4 Backpacking		
q4a	Frequency	Percent
Did on this trip	124	39.62
No	189	60.38

Q4 Day hiking		
q4b	Frequency	Percent
Did on this trip	224	71.57
No	89	28.43

Q4 Hunting		
q4c	Frequency	Percent
Did on this trip	66	21.09
No	247	78.91

Q4 Camping		
q4d	Frequency	Percent
Did on this trip	239	76.36
No	74	23.64

Q4 Mountain climbing		
q4e	Frequency	Percent
Did on this trip	48	15.34
No	265	84.66

Q4 Fishing		
q4f	Frequency	Percent
Did on this trip	78	24.92
No	235	75.08

Q4 Boating - motorized		
q4g	Frequency	Percent
Did on this trip	1	0.32
No	312	99.68

Q4 Boating - non-motorized		
q4h	Frequency	Percent
Did on this trip	152	48.56
No	161	51.44

Q4 Observing wildlife		
q4i	Frequency	Percent
Did on this trip	246	78.59
No	67	21.41

Q4 Birding		
q4j	Frequency	Percent
Did on this trip	162	51.76
No	151	48.24

Q4 Photography		
q4k	Frequency	Percent
Did on this trip	219	69.97
No	94	30.03

Q4 Other		
q4l	Frequency	Percent
Did on this trip	22	7.03
No	291	92.97

Question 6 Outfitted/Guided frequency distributions:

use the services of a commercial guide or outfitter		
q6a	Frequency	Percent
Yes	167	53.87
No	143	46.13

Frequency Missing = 3

working as a guide on this trip		
q6b	Frequency	Percent
Yes	29	9.35
No	281	90.65

Frequency Missing = 3

Question 7 frequency distributions:

how often camped on gravel bar or bare ground				
q7a	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Always	159	51.96	159	51.96
Usually	70	22.88	229	74.84
Sometimes	55	17.97	284	92.81
Never	22	7.19	306	100.00

Frequency Missing = 7

how often used a campfire				
q7b	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Always	42	13.64	42	13.64
Usually	26	8.44	68	22.08
Sometimes	77	25.00	145	47.08
Never	163	52.92	308	100.00

Frequency Missing = 5

how often bury solid human waste				
q7c	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Always	253	82.41	253	82.41
Usually	18	5.86	271	88.27
Sometimes	9	2.93	280	91.21
Never	27	8.79	307	100.00

Frequency Missing = 6

Question 9a frequency distributions:

Magazine, newspaper, or other media descriptions		
q9aa	Frequency	Percent
No Influence	114	38.13
Slight Influence	78	26.09
Moderate Influence	61	20.40
High Influence	46	15.38

Frequency Missing = 14

AR brochures and other printed info		
q9ab	Frequency	Percent
No Influence	224	75.42
Slight Influence	53	17.85
Moderate Influence	15	5.05
High Influence	5	1.68

Frequency Missing = 16

AR web site		
q9ac	Frequency	Percent
No Influence	215	72.64
Slight Influence	53	17.91
Moderate Influence	22	7.43
High Influence	6	2.03

Frequency Missing = 17

Personal contact with Refuge staff		
q9ad	Frequency	Percent
No Influence	256	85.91
Slight Influence	19	6.38
Moderate Influence	16	5.37
High Influence	7	2.35

Frequency Missing = 15

Publicity related to oil development		
q9ae	Frequency	Percent
No Influence	94	31.13
Slight Influence	50	16.56
Moderate Influence	74	24.50
High Influence	84	27.81

Frequency Missing = 11

Info from commercial guides or outfitters		
q9af	Frequency	Percent
No Influence	121	40.33
Slight Influence	42	14.00
Moderate Influence	62	20.67
High Influence	75	25.00

Frequency Missing = 13

The refuge wilderness character		
q9ag	Frequency	Percent
No Influence	14	4.59
Slight Influence	7	2.30
Moderate Influence	20	6.56
High Influence	264	86.56

Frequency Missing = 8

Opportunity to see wildlife		
q9ah	Frequency	Percent
No Influence	5	1.61
Slight Influence	5	1.61
Moderate Influence	30	9.65
High Influence	271	87.14

Frequency Missing = 2

Opportunity to experience solitude		
q9ai	Frequency	Percent
No Influence	9	2.92
Slight Influence	12	3.90
Moderate Influence	44	14.29
High Influence	243	78.90

Frequency Missing = 5

Other influence		
q9aj	Frequency	Percent
No Influence	212	67.73
Moderate Influence	5	1.60
High Influence	96	30.67

Question 9b frequency distributions ($n = 66$, as indicated by response to *Q4c*):

Opportunity to harvest a trophy animal		
q9ba	Frequency	Percent
No Influence	9	13.85
Slight Influence	12	18.46
Moderate Influence	17	26.15
High Influence	27	41.54

Frequency Missing = 1

Opportunity to procure meat		
q9bb	Frequency	Percent
No Influence	6	9.23
Slight Influence	11	16.92
Moderate Influence	17	26.15
High Influence	31	47.69

Frequency Missing = 1

Opportunity to hunt in a wild, natural, remote area		
q9bc	Frequency	Percent
Slight Influence	2	3.08
Moderate Influence	4	6.15
High Influence	59	90.77

Frequency Missing = 1

Lower probability of encountering other hunters		
q9bd	Frequency	Percent
No Influence	1	1.54
Slight Influence	4	6.15
Moderate Influence	13	20.00
High Influence	47	72.31

Frequency Missing = 1

Opportunity to hunt a unique species		
q9be	Frequency	Percent
No Influence	15	23.08
Slight Influence	8	12.31
Moderate Influence	11	16.92
High Influence	31	47.69

Frequency Missing = 1

Other hunting influence		
q9bf	Frequency	Percent
No Influence	58	87.88
Slight Influence	1	1.52
High Influence	7	10.61

Question 11 frequency distributions:

Experience Behavior of visitors outside your group		
q11a	Frequency	Percent
Greatly detract from visit	9	2.93
Slightly detract	62	20.20
Have no influence	200	65.15
Slightly improve	26	8.47
Greatly improve visit	10	3.26

Frequency Missing = 6

Experience Amount of energy...invested to get to..refuge		
q11b	Frequency	Percent
Greatly detract from visit	8	2.59
Slightly detract	82	26.54
Have no influence	107	34.63
Slightly improve	64	20.71
Greatly improve visit	48	15.53

Frequency Missing = 4

Experience Interaction with others in your group		
q11c	Frequency	Percent
Greatly detract from visit	4	1.29
Slightly detract	20	6.47
Have no influence	39	12.62
Slightly improve	82	26.54
Greatly improve visit	164	53.07

Frequency Missing = 4

Experience...technology (GPS, satellite phone) by your group		
q11d	Frequency	Percent
Greatly detract from visit	4	1.32
Slightly detract	18	5.92
Have no influence	148	48.68
Slightly improve	93	30.59
Greatly improve visit	41	13.49

Frequency Missing = 9

Experience Use of technology by other groups		
q11e	Frequency	Percent
Greatly detract from visit	3	0.98
Slightly detract	11	3.61
Have no influence	281	92.13
Slightly improve	8	2.62
Greatly improve visit	2	0.66

Frequency Missing = 8

Question 12 frequency distributions:

Total number of other groups encountered		
q12a1	Frequency	Percent
0	95	30.35
1	73	23.32
2	60	19.17
3	33	10.54
4	22	7.03
5	11	3.51
6	11	3.51
7	3	0.96
8	1	0.32
10	3	0.96
12	1	0.32

Groups at your access point encountered		
q12b1	Frequency	Percent
0	169	54.34
1	87	27.97
2	39	12.54
3	9	2.89
4	4	1.29
5	2	0.64
14	1	0.32

Frequency Missing = 2

Groups at your departure point encountered		
q12c1	Frequency	Percent
0	182	59.67
1	67	21.97
2	30	9.84
3	18	5.90
4	6	1.97
5	2	0.66

Frequency Missing = 8

Groups between...access and departure...encountered		
q12d1	Frequency	Percent
0	156	50.65
1	72	23.38
2	40	12.99
3	20	6.49
4	9	2.92
5	5	1.62
6	5	1.62
7	1	0.32

Frequency Missing = 5

Groups of seven or more encountered		
q12e1	Frequency	Percent
0	215	70.49
1	69	22.62
2	13	4.26
3	3	0.98
4	2	0.66
5	1	0.33
7	1	0.33
9	1	0.33

Frequency Missing = 8

Airplanes landing at access and departure points encountered		
q12f1	Frequency	Percent
0	118	39.33
1	69	23.00
2	49	16.33
3	25	8.33
4	15	5.00
5	11	3.67
6	6	2.00
7	1	0.33
8	3	1.00
9	1	0.33
10	1	0.33
30	1	0.33

Frequency Missing = 13

Airplanes (not high-altitude jets) seen or heard		
q12g1	Frequency	Percent
0	46	15.18
1	35	11.55
2	59	19.47
3	35	11.55
4	36	11.88
5	21	6.93
6	13	4.29
7	4	1.32
8	10	3.30
9	2	0.66
10	17	5.61
11	1	0.33
12	6	1.98
14	2	0.66
15	6	1.98
20	5	1.65
25	1	0.33
30	4	1.32

Frequency Missing = 10

Helicopters seen or heard		
q12h1	Frequency	Percent
0	275	89.00
1	20	6.47
2	13	4.21
6	1	0.32

Frequency Missing = 4

Refuge or law enforcement staff encountered		
q12i1	Frequency	Percent
0	243	77.88
1	41	13.14
2	21	6.73
3	3	0.96
4	2	0.64
5	1	0.32
9	1	0.32

Frequency Missing = 1

Evidence of previous campfires encountered		
q12j1	Frequency	Percent
0	186	60.19
1	63	20.39
2	29	9.39
3	18	5.83
4	7	2.27
5	2	0.65
6	1	0.32
7	2	0.65
9	1	0.32

Frequency Missing = 4

Evidence of previously used campsites encountered		
q12k1	Frequency	Percent
0	132	42.72
1	81	26.21
2	45	14.56
3	21	6.80
4	17	5.50
5	10	3.24
6	1	0.32
9	1	0.32
10	1	0.32

Frequency Missing = 4

Evidence of human waste or toilet paper encountered		
q12l1	Frequency	Percent
0	259	83.82
1	31	10.03
2	12	3.88
3	3	0.97
4	2	0.65
5	1	0.32
15	1	0.32

Frequency Missing = 4

Local residents engaged in subsistence activities encountered		
q12m1	Frequency	Percent
0	290	93.85
1	8	2.59
2	4	1.29
3	3	0.97
4	1	0.32
5	1	0.32
7	1	0.32
10	1	0.32

Frequency Missing = 4

Evidence of other visitors' impacts encountered		
q12n1	Frequency	Percent
0	145	47.85
1	75	24.75
2	42	13.86
3	19	6.27
4	8	2.64
5	6	1.98
6	3	0.99
7	2	0.66
8	1	0.33
10	1	0.33
11	1	0.33

Frequency Missing = 10

Question 13 Refuge Purpose frequency distributions:

A place for recreation		
q13a	Frequency	Percent
Not at all important	15	4.87
Slightly important	54	17.53
Moderately important	89	28.90
Very important	150	48.70

Frequency Missing = 5

A place for wildlife		
q13b	Frequency	Percent
Slightly important	1	0.32
Moderately important	7	2.25
Very important	303	97.43

Frequency Missing = 2

A place of high economic value for tourism and guiding		
q13c	Frequency	Percent
Not at all important	60	19.48
Slightly important	120	38.96
Moderately important	80	25.97
Very important	48	15.58

Frequency Missing = 5

A place of high economic value for energy development		
q13d	Frequency	Percent
Not at all important	233	74.68
Slightly important	39	12.50
Moderately important	19	6.09
Very important	21	6.73

Frequency Missing = 1

A place for wilderness		
q13e	Frequency	Percent
Not at all important	1	0.32
Moderately important	10	3.21
Very important	301	96.47

Frequency Missing = 1

A place for scientists to study natural processes		
q13f	Frequency	Percent
Not at all important	7	2.24
Slightly important	29	9.27
Moderately important	77	24.60
Very important	200	63.90

Just knowing that it is there, whether or not you visit again		
q13g	Frequency	Percent
Not at all important	13	4.18
Slightly important	13	4.18
Moderately important	37	11.90
Very important	248	79.74

Frequency Missing = 2

A place for reflection and contemplation		
q13h	Frequency	Percent
Not at all important	15	4.81
Slightly important	39	12.50
Moderately important	64	20.51
Very important	194	62.18

Frequency Missing = 1

A place that requires self-reliance		
q13i	Frequency	Percent
Not at all important	7	2.25
Slightly important	26	8.36
Moderately important	56	18.01
Very important	222	71.38

Frequency Missing = 2

A place where you have the freedom to go where you want		
q13j	Frequency	Percent
Not at all important	13	4.17
Slightly important	34	10.90
Moderately important	55	17.63
Very important	210	67.31

Frequency Missing = 1

A place to perpetuate America's exploration history and cultural heritage		
q13k	Frequency	Percent
Not at all important	36	11.61
Slightly important	78	25.16
Moderately important	74	23.87
Very important	122	39.35

Frequency Missing = 3

Adventure		
q13l	Frequency	Percent
Not at all important	7	2.24
Slightly important	23	7.35
Moderately important	70	22.36
Very important	213	68.05

Remoteness and isolation		
q13m	Frequency	Percent
Not at all important	1	0.32
Slightly important	3	0.96
Moderately important	31	9.90
Very important	278	88.82

A place to learn about nature		
q13n	Frequency	Percent
Not at all important	9	2.88
Slightly important	28	8.95
Moderately important	96	30.67
Very important	180	57.51

A representation of the Arctic		
q13o	Frequency	Percent
Not at all important	5	1.61
Slightly important	15	4.84
Moderately important	45	14.52
Very important	245	79.03

Frequency Missing = 3

A place for humility		
q13p	Frequency	Percent
Not at all important	41	13.18
Slightly important	49	15.76
Moderately important	79	25.40
Very important	142	45.66

Frequency Missing = 2

A place for quiet and natural sounds		
q13q	Frequency	Percent
Not at all important	5	1.60
Slightly important	14	4.49
Moderately important	39	12.50
Very important	254	81.41

Frequency Missing = 1

A place for solitude		
q13r	Frequency	Percent
Not at all important	5	1.60
Slightly important	22	7.05
Moderately important	39	12.50
Very important	246	78.85

Frequency Missing = 1

A place for opportunities to perpetuate subsistence and Native culture		
q13s	Frequency	Percent
Not at all important	39	12.50
Slightly important	66	21.15
Moderately important	91	29.17
Very important	116	37.18

Frequency Missing = 1

A bequest to future generations		
q13t	Frequency	Percent
Not at all important	5	1.61
Slightly important	10	3.23
Moderately important	19	6.13
Very important	276	89.03

Frequency Missing = 3

A place to understand the effects of climate change		
q13u	Frequency	Percent
Not at all important	21	6.73
Slightly important	36	11.54
Moderately important	81	25.96
Very important	174	55.77

Frequency Missing = 1

A place that protects water and air quality		
q13v	Frequency	Percent
Not at all important	5	1.61
Slightly important	15	4.82
Moderately important	40	12.86
Very important	251	80.71

Frequency Missing = 2

A sacred place		
q13w	Frequency	Percent
Not at all important	39	12.58
Slightly important	37	11.94
Moderately important	61	19.68
Very important	173	55.81

Frequency Missing = 3

A place...baseline comparison...human actions on the environment		
q13x	Frequency	Percent
Not at all important	20	6.54
Slightly important	40	13.07
Moderately important	89	29.08
Very important	157	51.31

Frequency Missing = 7

An environment largely free of the reminders of modern society		
q13y	Frequency	Percent
Not at all important	5	1.61
Slightly important	5	1.61
Moderately important	50	16.08
Very important	251	80.71

Frequency Missing = 2

A place where natural process continue, without human control or manipulation		
q13z	Frequency	Percent
Not at all important	2	0.64
Slightly important	11	3.54
Moderately important	32	10.29
Very important	266	85.53

Frequency Missing = 2

A place to discover unknown or nameless areas and features		
q13aa	Frequency	Percent
Not at all important	14	4.52
Slightly important	33	10.65
Moderately important	61	19.68
Very important	202	65.16

Frequency Missing = 3

A place for restraint...and...limited addition to climate change effects		
q13bb	Frequency	Percent
Not at all important	23	7.47
Slightly important	31	10.06
Moderately important	50	16.23
Very important	204	66.23

Frequency Missing = 5

Question 14 frequency distributions:

Organized events like competitive racing		
q14a	Frequency	Percent
Very Inappropriate	202	65.16
Inappropriate	62	20.00
Neutral	32	10.32
Appropriate	10	3.23
Very Appropriate	4	1.29

Frequency Missing = 3

Installations such as weather stations for monitoring purposes		
q14b	Frequency	Percent
Very Inappropriate	41	13.31
Inappropriate	68	22.08
Neutral	94	30.52
Appropriate	83	26.95
Very Appropriate	22	7.14

Frequency Missing = 5

Use of aircraft for viewing wildlife		
q14c	Frequency	Percent
Very Inappropriate	126	40.38
Inappropriate	80	25.64
Neutral	50	16.03
Appropriate	46	14.74
Very Appropriate	10	3.21

Frequency Missing = 1

Use of aircraft for sightseeing		
q14d	Frequency	Percent
Very Inappropriate	114	36.77
Inappropriate	73	23.55
Neutral	64	20.65
Appropriate	45	14.52
Very Appropriate	14	4.52

Frequency Missing = 3

Use of helicopters for public access		
q14e	Frequency	Percent
Very Inappropriate	136	43.73
Inappropriate	66	21.22
Neutral	55	17.68
Appropriate	41	13.18
Very Appropriate	13	4.18

Frequency Missing = 2

Use of airplanes for public access		
q14f	Frequency	Percent
Very Inappropriate	13	4.21
Inappropriate	15	4.85
Neutral	56	18.12
Appropriate	130	42.07
Very Appropriate	95	30.74

Frequency Missing = 4

Use of helicopters by the agency for conducting studies		
q14g	Frequency	Percent
Very Inappropriate	34	10.93
Inappropriate	43	13.83
Neutral	75	24.12
Appropriate	115	36.98
Very Appropriate	44	14.15

Frequency Missing = 2

Use of helicopters by the agency for tours by public officials		
q14h	Frequency	Percent
Very Inappropriate	86	27.65
Inappropriate	72	23.15
Neutral	77	24.76
Appropriate	58	18.65
Very Appropriate	18	5.79

Frequency Missing = 2

Question 15 Attachment frequency distributions:

I identify strongly with the AR		
q15a	Frequency	Percent
Strongly Disagree	2	0.64
Disagree	2	0.64
Neutral	31	9.97
Agree	91	29.26
Strongly Agree	185	59.49

Frequency Missing = 2

I am not very attached to the AR		
q15b	Frequency	Percent
Strongly Disagree	201	64.63
Disagree	75	24.12
Neutral	21	6.75
Agree	7	2.25
Strongly Agree	7	2.25

Frequency Missing = 2

I feel like the AR is a part of me		
q15c	Frequency	Percent
Strongly Disagree	5	1.62
Disagree	14	4.55
Neutral	73	23.70
Agree	103	33.44
Strongly Agree	113	36.69

Frequency Missing = 5

The AR is the best place to do what I did on this trip		
q15d	Frequency	Percent
Strongly Disagree	2	0.65
Disagree	13	4.21
Neutral	43	13.92
Agree	84	27.18
Strongly Agree	167	54.05

Frequency Missing = 4

The AR is very special to me		
q15e	Frequency	Percent
Strongly Disagree	1	0.32
Neutral	13	4.21
Agree	66	21.36
Strongly Agree	229	74.11

Frequency Missing = 4

I could substitute another place for doing the types of things I did on this trip		
q15f	Frequency	Percent
Strongly Disagree	105	33.87
Disagree	70	22.58
Neutral	44	14.19
Agree	78	25.16
Strongly Agree	13	4.19

Frequency Missing = 3

I get more satisfaction out of visiting the AR than any other place		
q15g	Frequency	Percent
Strongly Disagree	5	1.62
Disagree	40	12.94
Neutral	112	36.25
Agree	82	26.54
Strongly Agree	70	22.65

Frequency Missing = 4

Doing what I do at the AR is more important to me than doing it anywhere else		
q15h	Frequency	Percent
Strongly Disagree	7	2.26
Disagree	51	16.45
Neutral	81	26.13
Agree	86	27.74
Strongly Agree	85	27.42

Frequency Missing = 3

Question 16 frequency distributions:

Limit campfires where sustainability of wood is a concern		
q16a	Frequency	Percent
Strongly Oppose	12	3.85
Oppose	17	5.45
Neutral	36	11.54
Support	88	28.21
Strongly Support	159	50.96

Frequency Missing = 1

Require use of bear-resistant containers		
q16b	Frequency	Percent
Strongly Oppose	33	10.65
Oppose	60	19.35
Neutral	71	22.90
Support	67	21.61
Strongly Support	79	25.48

Frequency Missing = 3

Require packing out human solid waste where accumulation is a concern		
q16c	Frequency	Percent
Strongly Oppose	28	9.03
Oppose	32	10.32
Neutral	50	16.13
Support	102	32.90
Strongly Support	98	31.61

Frequency Missing = 3

Establish zones where aircraft landings are limited		
q16d	Frequency	Percent
Strongly Oppose	21	6.73
Oppose	27	8.65
Neutral	32	10.26
Support	97	31.09
Strongly Support	135	43.27

Frequency Missing = 1

Limit aircraft landings on vegetated surfaces where scarring may occur		
q16e	Frequency	Percent
Strongly Oppose	17	5.45
Oppose	27	8.65
Neutral	46	14.74
Support	89	28.53
Strongly Support	133	42.63

Frequency Missing = 1

Require visitors to register before entering the refuge		
q16f	Frequency	Percent
Strongly Oppose	32	10.22
Oppose	37	11.82
Neutral	80	25.56
Support	93	29.71
Strongly Support	71	22.68

Increase presence of law enforcement		
q16g	Frequency	Percent
Strongly Oppose	48	15.38
Oppose	85	27.24
Neutral	127	40.71
Support	47	15.06
Strongly Support	5	1.60

Frequency Missing = 1

Increase information about trip planning and travel within the refuge		
q16h	Frequency	Percent
Strongly Oppose	23	7.35
Oppose	36	11.50
Neutral	137	43.77
Support	94	30.03
Strongly Support	23	7.35

Increase information about the refuge's history, wildlife, ecology, and wilderness		
q16i	Frequency	Percent
Strongly Oppose	5	1.60
Oppose	6	1.92
Neutral	63	20.13
Support	152	48.56
Strongly Support	87	27.80

Temporarily close areas to heal previous human impacts		
q16j	Frequency	Percent
Strongly Oppose	16	5.11
Oppose	27	8.63
Neutral	51	16.29
Support	118	37.70
Strongly Support	101	32.27

Require camping on gravel or other durable surfaces when available		
q16k	Frequency	Percent
Strongly Oppose	17	5.43
Oppose	30	9.58
Neutral	59	18.85
Support	104	33.23
Strongly Support	103	32.91

Manipulate habitat to increase the number of animals of a favored species		
q16l	Frequency	Percent
Strongly Oppose	153	49.04
Oppose	88	28.21
Neutral	47	15.06
Support	20	6.41
Strongly Support	4	1.28

Frequency Missing = 1

Predator control to increase the number of animals of a favored species		
q16m	Frequency	Percent
Strongly Oppose	183	58.65
Oppose	52	16.67
Neutral	36	11.54
Support	26	8.33
Strongly Support	15	4.81

Frequency Missing = 1

Predator control to increase the number of animals favored for hunting		
q16n	Frequency	Percent
Strongly Oppose	221	70.61
Oppose	31	9.90
Neutral	20	6.39
Support	19	6.07
Strongly Support	22	7.03

Establish trails		
q16o	Frequency	Percent
Strongly Oppose	204	65.38
Oppose	61	19.55
Neutral	35	11.22
Support	12	3.85

Frequency Missing = 1

Install directional signs		
q16p	Frequency	Percent
Strongly Oppose	224	72.03
Oppose	51	16.40
Neutral	28	9.00
Support	7	2.25
Strongly Support	1	0.32

Frequency Missing = 2

Develop camp sites at popular access and departure locations		
q16q	Frequency	Percent
Strongly Oppose	146	46.95
Oppose	66	21.22
Neutral	54	17.36
Support	36	11.58
Strongly Support	9	2.89

Frequency Missing = 2

Provide 'port-a-potties' at heavily used access and departure locations		
q16r	Frequency	Percent
Strongly Oppose	126	40.65
Oppose	53	17.10
Neutral	52	16.77
Support	60	19.35
Strongly Support	19	6.13

Frequency Missing = 3

Naming features or places that are currently nameless		
q16s	Frequency	Percent
Strongly Oppose	157	50.97
Oppose	51	16.56
Neutral	90	29.22
Support	9	2.92
Strongly Support	1	0.32

Frequency Missing = 5

Construct bridges for safe river crossings		
q16t	Frequency	Percent
Strongly Oppose	203	65.27
Oppose	74	23.79
Neutral	25	8.04
Support	7	2.25
Strongly Support	2	0.64

Frequency Missing = 2

Construct public-use cabins		
q16u	Frequency	Percent
Strongly Oppose	197	63.55
Oppose	66	21.29
Neutral	27	8.71
Support	15	4.84
Strongly Support	5	1.61

Frequency Missing = 3

For high-use rivers, establish a system to limit encounters between groups		
q16v	Frequency	Percent
Strongly Oppose	28	8.97
Oppose	38	12.18
Neutral	82	26.28
Support	109	34.94
Strongly Support	55	17.63

Frequency Missing = 1

Question 4 Activities cross-tabulation with Hunting:

Table of q4a by q4c			
q4a(Q4 Backpacking)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	29 9.27 23.39 43.94	95 30.35 76.61 38.46	124 39.62
No	37 11.82 19.58 56.06	152 48.56 80.42 61.54	189 60.38
Total	66 21.09	247 78.91	313 100.00

Table of q4b by q4c			
q4b(Q4 Day hiking)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	32 10.22 14.29 48.48	192 61.34 85.71 77.73	224 71.57
No	34 10.86 38.20 51.52	55 17.57 61.80 22.27	89 28.43
Total	66 21.09	247 78.91	313 100.00

Table of q4d by q4c			
q4d(Q4 Camping)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	46 14.70 19.25 69.70	193 61.66 80.75 78.14	239 76.36
No	20 6.39 27.03 30.30	54 17.25 72.97 21.86	74 23.64
Total	66 21.09	247 78.91	313 100.00

Table of q4e by q4c			
q4e(Q4 Mountain climbing)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	14 4.47 29.17 21.21	34 10.86 70.83 13.77	48 15.34
No	52 16.61 19.62 78.79	213 68.05 80.38 86.23	265 84.66
Total	66 21.09	247 78.91	313 100.00

Table of q4f by q4c			
q4f(Q4 Fishing)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	34 10.86 43.59 51.52	44 14.06 56.41 17.81	78 24.92
No	32 10.22 13.62 48.48	203 64.86 86.38 82.19	235 75.08
Total	66 21.09	247 78.91	313 100.00

Table of q4g by q4c			
q4g(Q4 Boating - motorized)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	0 0.00 0.00 0.00	1 0.32 100.00 0.40	1 0.32
No	66 21.09 21.15 100.00	246 78.59 78.85 99.60	312 99.68
Total	66 21.09	247 78.91	313 100.00

Table of q4h by q4c			
q4h(Q4 Boating - non-motorized)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	20 6.39 13.16 30.30	132 42.17 86.84 53.44	152 48.56
No	46 14.70 28.57 69.70	115 36.74 71.43 46.56	161 51.44
Total	66 21.09	247 78.91	313 100.00

Table of q4i by q4c			
q4i(Q4 Observing wildlife)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	36 11.50 14.63 54.55	210 67.09 85.37 85.02	246 78.59
No	30 9.58 44.78 45.45	37 11.82 55.22 14.98	67 21.41
Total	66 21.09	247 78.91	313 100.00

Table of q4j by q4c			
q4j(Q4 Birding)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	13 4.15 8.02 19.70	149 47.60 91.98 60.32	162 51.76
No	53 16.93 35.10 80.30	98 31.31 64.90 39.68	151 48.24
Total	66 21.09	247 78.91	313 100.00

Table of q4k by q4c			
q4k(Q4 Photography)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	27 8.63 12.33 40.91	192 61.34 87.67 77.73	219 69.97
No	39 12.46 41.49 59.09	55 17.57 58.51 22.27	94 30.03
Total	66 21.09	247 78.91	313 100.00

Table of q4l by q4c			
q4l(Q4 Other)	q4c(Q4 Hunting)		
Frequency Percent Row Pct Col Pct	Hunter	Non-Hunter	
Did on this trip	0 0.00 0.00 0.00	22 7.03 100.00 8.91	22 7.03
No	66 21.09 22.68 100.00	225 71.88 77.32 91.09	291 92.97
Total	66 21.09	247 78.91	313 100.00

Question 4 Activities cross-tabulation with Q6 Guided/Outfitted:

Table of q4a by q6a			
q4a(Q4 Backpacking)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	49 15.81 39.52 29.34	75 24.19 60.48 52.45	124 40.00
No	118 38.06 63.44 70.66	68 21.94 36.56 47.55	186 60.00
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4b by q6a			
q4b(Q4 Day hiking)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	138 44.52 62.16 82.63	84 27.10 37.84 58.74	222 71.61
No	29 9.35 32.95 17.37	59 19.03 67.05 41.26	88 28.39
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4d by q6a			
q4d(Q4 Camping)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	135 43.55 56.72 80.84	103 33.23 43.28 72.03	238 76.77
No	32 10.32 44.44 19.16	40 12.90 55.56 27.97	72 23.23
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4e by q6a			
q4e(Q4 Mountain climbing)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	22 7.10 45.83 13.17	26 8.39 54.17 18.18	48 15.48
No	145 46.77 55.34 86.83	117 37.74 44.66 81.82	262 84.52
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4f by q6a			
q4f(Q4 Fishing)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	34 10.97 43.59 20.36	44 14.19 56.41 30.77	78 25.16
No	133 42.90 57.33 79.64	99 31.94 42.67 69.23	232 74.84
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4g by q6a			
q4g(Q4 Boating - motorized)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	0 0.00 0.00 0.00	1 0.32 100.00 0.70	1 0.32
No	167 53.87 54.05 100.00	142 45.81 45.95 99.30	309 99.68
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4h by q6a			
q4h(Q4 Boating - non-motorized)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	103 33.23 68.67 61.68	47 15.16 31.33 32.87	150 48.39
No	64 20.65 40.00 38.32	96 30.97 60.00 67.13	160 51.61
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4i by q6a			
q4i(Q4 Observing wildlife)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	145 46.77 59.43 86.83	99 31.94 40.57 69.23	244 78.71
No	22 7.10 33.33 13.17	44 14.19 66.67 30.77	66 21.29
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4j by q6a			
q4j(Q4 Birding)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	106 34.19 66.25 63.47	54 17.42 33.75 37.76	160 51.61
No	61 19.68 40.67 36.53	89 28.71 59.33 62.24	150 48.39
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4k by q6a			
q4k(Q4 Photography)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	127 40.97 58.26 76.05	91 29.35 41.74 63.64	218 70.32
No	40 12.90 43.48 23.95	52 16.77 56.52 36.36	92 29.68
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Table of q4l by q6a			
q4l(Q4 Other)	q6a(use the services of a commercial guide or outfitter)		Total
Frequency Percent Row Pct Col Pct	Guided/Outfitted	Non-Guided	
Did on this trip	18 5.81 85.71 10.78	3 0.97 14.29 2.10	21 6.77
No	149 48.06 51.56 89.22	140 45.16 48.44 97.90	289 93.23
Total	167 53.87	143 46.13	310 100.00
Frequency Missing = 3			

Written Comments:

q4lspec – specific activity not on the list

- botanizing
- EDUCATION
- Enjoyed the Northern Lights
- enjoying the quiet of wilderness
- Fly-around with multiple landings
- fossil hunting
- fossils & rocks; botany
- Geologic observation
- guiding
- meditation
- Mushing
- sketching
- This trip = watching spring arrive in the Brooks Range
- viewing wildflowers
- Wild flower identification

q8adesc - What techniques did you use to protect yourself from, or reduce your likelihood on interactions with, bears or other animals?

- 2 rifles; bear spray; minimize food exposure, zero food around tents.
- 24/7 fastidious clean camp practices. Bear barrels.
- adequate behavior, infrared sensors along the coast
- All food and garbage was kept in bear boxes. Dishes were washed well away from campsites. We ate very little meat. When hiking, we stayed mostly to higher ground and avoided brushy areas. We avoided camping in areas that showed recent bear signs.
- All food re-packaged & double-bagged, hung in trees in timbered areas, otherwise stored in covered backpacks surrounded by but not right next to treats. Vigilant observation of terrain, sign, wind etc.
- All food was kept in the cook tent far away from the sleeping tents.
- Any odorous materials kept in dry bag away from tents. Cooking done near water's edge to ensure no food smells remained. Always kept camping sites clean of food and/or human wastes.
- Ate at locations other than where we camped for the evening. All food at least 200 yards from tents. Armed with Firearms
- Ate away from sleeping area, stored all food in one place, stacked cooking items so bear would make noise and wake us.
- Avoidance
- Avoidance, noise in willowy areas, bear spray (not used).
- Awareness and separation of foodstuffs
- Baited myself with bacon grease and 10mm handgun :)
- Be alert; one member had pepper spray.
- Be extra aware of surroundings, no gun or other defense items
- Bear avoidance training from our guides; Carried pepper spray at all times; No food or wrappers in tent-ever!!

- Bear barrels for all food, separated from camp when not in use. Camp where we had good visibility in all directions.
- Bear barrels for food & toiletries. Kitchen area away from tents. Limited smelly foods, quick clean-up after eating.
- Bear barrels, camped away from kitchen area, bear spray, handguns
- Bear barrels, hid all smelly objects, bear spray and bear songs.
- Bear barrels; set up kitchen and stored food away from tents.
- Bear canister for some (but not all) food. Kitchen area 150' from sleeping area. Food storage 150' from sleeping and kitchen area.
- Bear canisters, kept fire/food preparations away from tent site.
- Bear cans for food. Eating area away from camping area. Pepper spray, flare gun and rifle carried.
- Bear containers, cooked away from the tent
- Bear fence for food. Close together tents (3 tents).
- bear fence, bear bag, normal hiking precautions
- Bear fence, Bear spray, and one person in the group had a gun.
- Bear fence; kept camp sanitized; guns.
- Bear mace, 12 gauge shotgun
- Bear proof food container; place food away from camp; try to prepare dinner before making camp; bear spray; hand guns
- Bear spray and caution.
- Bear spray and Firearm
- Bear spray, bear fence, cooked away from tent site and kept food away from tent site, buried leftovers.
- Bear spray, centralized location for food away from tents, bear-proof food containers
- bear spray, flare gun, yell, sing
- bear spray, made noise
- Bear spray, no food in tents, always aware and looking and guide had a rifle.
- Bear spray, noise in dense areas, kept clean site, sleep away from food... etc.
- Bear spray; one member had 44 hand gun, kept kitchen, food and camping areas separate, etc.
- Bear spray, Rifle
- bear spray; keeping a clean camp; storing food away from tents
- Bear proof containers; tents well away from food caches; kept away from larger brush
- Brought 3 bear proof containers for storing food. Bear spray. A pistol. We were also careful about smelling up our clothes/tent with food.
- Burn stinky trash and unused food, camping away from game trails, getting guest to keep anything that smells with food, keeping very clean kitchen, etc.
- Cached game meat in waterproof bags submerged in creek. Maintained a clean camp; camped where there was no bear sign, etc.
- Camp out in the open. Kept food away from the camp. Made lots of noise while hiking.
- Camped away from cooking area. Used bear-proof containers for emergency food. Burned garbage.
- "camped away from kitchen; consolidated food boxes and kitchen gear in a ""tower"" every night that would collapse noisily if disturbed; carried pepper spray; viewed bears and other wildlife from a distance, used spotting scopes and binoculars"
- Camped away from rivers and food in bear proof containers.
- Camped in open; made noise if hiking in/near willow; did not bury food or leave anything on ground; cooked/washed pots away from tent area; no food in/near tents; carried bear spray when hiking.

- Campsite selection-safe food management-left no food scraps-always metal on metal capable fire are-always alert-buddy system
- Canned food, plastic containers
- careful campsite selection, food in airtight (though not bear proof containers), minimal cooking odors (Freeze dried foods) being observative, pepper spray
- careful food practices; gun; smart hiking practices
- Careful food storage and prep. All carried bear spray. Several firearms. Noisy travel in brush, etc.
- Careful observation, group size (though we did sometimes spread out or split up), noise (talking), storing food and cook/eat gear away from tents and packs; carried bear spray canisters. we did not see any bears on our trip, though we did see sign (scat, digging)..
- Carried bear buckets for food; made a bit of noise when we walked if we felt a bear was nearby
- Carried bear canisters and spray.
- Carried bear spray.
- Carried bear spray. Carried whistle. Sang/whistled to myself/talked to the birds.
- Carried bear spray. Kept smellables in the kitchen area.
- Carried big gun. Kept food and meat away from camp.
- carried firearms
- Carried gun. Stored food away from the tents.
- Carried pepper spray - paid attention to surroundings.
- Carried pepper spray and a firearm. Made noise.
- Carried pepper spray and firearm and used bear fence. However, kept a very clean camp, used airtight packaging for food, and kept our kitchen away from camp.
- Carried rifles at all times when away from camp.
- Caution, staying together, had flares and pepper spray as backup, never used
- Clean camp
- Clean camp, bear electric fence, camp away from bear kills , always made noise when hiking through brush. Carried a firearm and bear spray as last resort.
- Clean camp, food secured. Guides close to cook area.
- clean camp, good luck, big gun
- Clean camp, hung food high (trees when available)
- Clean camp, proper food storage, travel and camp with visibility-announce presence of ... noise (also carried bear spray and shotgun).
- Clean camp. Bear barrels.
- clean camp/ group activities/bear spray/
- Clean camp/stow garbage away from tent, no food in sleeping tent.
- Clean camp; separate cooking/sleeping areas. Brought a bear perimeter fence, but never used it.
- clean up carefully and stay in groups
- Cleanliness, care with food and garbage (burning) and bear spray.
- Common Sense
- Constantly made noise; carried bear spray.
- Cook away from tents, clean up area after cooking, peed up and downstream camp/cook area, stored food out of sight (some in bear barrels) & away from camp/work area in double dry bags.
- Cook in separate kitchen tent with relatively non-odorous foods. Hike in open areas with good visibility.
- Cooked and ate approximately 100 yards from camp. Utilized electric fence around campsite and around boats and food when camped away from the river.

- Cooked and stored food far away from tent sites, made noise in areas of dense brush, carried bear spray
- Cooked and stored food well away from sleeping tents. Carried pepper spray. Guide carried a firearm.
- Cooking food away from tent, bear fence, massive firepower always at hand
- Cooking in separate area from sleeping. Using freeze dried meals with low odor; not cooking meat; packing well to reduce trash/waste; being aware/cognizant of surroundings & signs.
- "Copious reading prior to trip, contact w/ Bruce I., an Inupiat Eskimo guide from Kaktovik for advice; kept scrupulously clean campsites & cooked meals away from tent; discussed agreed upon bear strategies w/ my sister in the event of a bear sighting (there was one); practiced using a shotgun prior to trip & carried a 12 gauge, 18""barrel, pump-action shotgun w/slugs while canoeing on the coastal plains due to possible polar bear encounters (there were none but we did see polar bear tracks). Also, we each carried a flare gun w/ flares and 2-10 oz. cans of pepper spray (never had to use either one)."
- Didn't approach any wildlife - observed mostly from the air
- Didn't-I wanted some interaction
- electric fence around cook tent & food storage area
- Electric fence, bear spray, tripod to hang food, coolers, stacked boats and stored food on top within the fence while hiking/climbing elsewhere. One firearm.
- Electric fence, staying together with companion, making noise, staying aware of surroundings
- Electric fence; Firearm.
- Eyesight, Common Sense, Knowledge of bear behavior, & .35 Whelan Rifle.
- Firearm in camp, food in separate tent.
- Firearms
- Follow guide's instructions. No food in/near tents, noisy in thickets; pepper spray.
- Followed guides recommendations.
- food in bear resistant containers, separate from camp
- Food in containers. Camp in open.
- Food out of tent. Cooked 200 feet from tent. Sealed all food waste.
- Food precautions
- Food separate from camp, and upwind. Travel together. Constant vigilance. Bear-resistant containers for some food.
- Food stored away from tents in air tight containers. Burned all food waste.
- Food tent was 100 yards or more away from sleeping tent. I slept with rifle.
- Food was kept 50 yards from tent. Game meat was kept 200 yards from tent.
- For the most part, food was kept in the 'cook tent' far away from where we slept.
- General vigilance by groups; travel route was mostly in tree-free areas, so visibility was almost always good.
- Group of 40 or more when hiking; bear spray; Leader(s) had firearms I think but never needed to be used.
- group travel, not solo; avoided willow habitat; carried pepper spray
- Guide carried a firearm. Chose camps carefully, kept clean kitchen, leave no trace camping.
- Guides carried bear spray, guns.
- Gun, camp away from food area, hang meat far away from camp
- Guns, electric bear fence, clean camp. Did not see any bears
- Had bear spray, no food in tents, all dried food, secure food storage at night away from tents.
- Had bear spray. Guides had shotgun.
- hiked in groups; were careful with food

- I attempt to spot animals, especially bears, prior to them seeing me. Obviously, I have been spotted by animals that I haven't seen. Bears are the greatest concern for safety, however, these bears do not seem habituated to people. All have ran away upon getting my sent or seeing my movement unless at a substantial distance. I try to keep a clean camp. I don't cook per se but boil water to hydrate freeze dried food. I keep my pack with food at a distance from my tent.
- I keep food away from tents and use electric bear fence where I land.
- I kept my firearm on the ready. I kept my camp clean and I did not cook in or around my tent.
- Isolate food sources
- Keep a clean camp. No food in tents. Cooking area away from camping area.
- Keep a very clean camp. Eat & cook away from our sleeping area.
- Keep all food in truck.
- Keep clean campsite.
- Keep food away from sleeping area, keep rifle handy in the tent at night.
- Keep food away from sleeping area.
- Keep food away from tent. Cook over camp fire well away (~1 mile) away from where we camped. Rifle
- Kept a clean camp
- Kept a clean camp as far as no open food containers and burnt all food containers daily.
- Kept a clean camp. Made a lot of noise. Carried bear spray.
- Kept a clean camp. Set up cooking area away from main camp. Foodstuffs were secured in cooler within a waterproof bag. Kept all game meat away from main camp and covered.
- Kept a clean camp. Camped away from kitchen. Stored food in sealed containers. Avoided bringing smelly foods. Camped in areas with no bear sign.
- Kept a clean camp. Camped away from kitchen. Stored food in sealed containers. Avoided bringing smelly foods. Camped in areas with no bear sign.
- Kept a clean camp, low odor foods.
- Kept a gun close.
- Kept a regular and constant watch out for them. Brought pepper spray and was trained how to use them. Guide had guns for the rafting part but not the backpacking part. Kept some food and toiletries in zip locked bags. Kept bags away and downwind from tent. Tried to be careful to avoid getting food on self. Careful with camp stuff and clean up.
- kept all food in containers at kitchen tent; kept watch for bears on hikes
- Kept all food in locked case. Brush teeth at river.
- Kept all food in one place at night, well away from our tents.
- Kept all food in the boat. Packed out all garbage and human waste.
- Kept anything that would attract bears away from tent.
- Kept campsite clean, kept food in food tent, looked for bears, stayed out of willows, made noise, and carried pepper spray.
- Kept clean camp, used freeze dried food to decrease odors, had bear spray, awareness of surrounding.
- Kept clean camp. Kept food and scent from tent. Talked out loud while hiking. Kept watch.
- Kept clean campsites. Stored cache food in bear canisters.
- Kept clothes free from food. Slept away from cook oven. Guide carried bear spray and I think had a gun.
- Kept food and kitchen far from tent sites. Kept toilet far from tent sites. No food in tents.
- Kept food and meat away from tent.
- Kept food away from sleeping area. Although bears were in the area, we had no problems at all.
- Kept food away from sleeping area. Electric fence around tent.

- Kept food away from sleeping area. Separate sleeping, cooking, and meat storage areas separated by at least 50 yards. Buried all human wastes. Kept garbage and food in sealed containers. Washed dishes well away from camp.
- Kept food away from tent.
- KEPT FOOD AWAY FROM TENT. MAINTAINED A CLEAN CAMP.
- Kept food away from tents, kept food in safe container
- Kept food away, cleaned up, noise at risk areas (brush/near river crossings).
- Kept food in sealed containers. Carried pepper spray. Watch, listen, make noise.
- "Kept food out of tents. Be ""noisy"" when hiking in brush. There was bear spray available. Guide carried rifle."
- Kept food packed away & safe distance away from tent; carried bear spray.
- Kept food sealed in dry bags away from tents. Did not matter. We saw 11 bears on this trip and a couple got into our stuff.
- Kept food separate from sleeping area. Vacuum sealed all foods. Kept area's clean.
- Kept food tent and meat cache well away from camp.
- Kept food/kill away from camp.
- Kept no food in my tent. The cook area was well away from our personal tents.
- Kept our eyes open for wildlife and kept our distance, kept a clean camp and carried bear spray just in case (never came out of the holster.)
- Kept tents separate from cooking area. Keep food sealed. Kept meat away from camp.
- Kitchen/food separated from tents, hike in groups making noise when terrain or vegetation obscured view, shotgun and bear spray for defense
- Knowledge of bear habits and habitat. Making noise in areas where surprise was possible. Guide carried pepper spray.
- Large group of people. Burn garbage in fire pan. Limit scents.
- Locating tents separate from kitchen/dining separate from food. Make noise when nearing blind passages.
- Location of food away from tents.
- Loud noises when in bear areas (i.e... willows), large guns/pepper (bear) spray, food 100 yards from tents.
- Mace and bells
- mace/but had no interaction up close
- Made noise when hiking. Kept food separate from camp.
- Made noise while hiking in brush, kept food/kitchen area far from tents, carried bear spray.
- Made noise, carried pepper spray, flare gun
- Made noise. Had bear spray. Had a kitchen tent away from sleeping quarters. Removed food products from tent.
- Maintain a clean camp. Minimize potential food odors. Make noise when approaching areas that may contain bears. Carry a firearm.
- Maintain clean camp. Secured food in bear resistant containers. Be observant.
- Maintained a clean camp. Stored all smellable items in kitchen area. Set up tents far from kitchen area. Made moderate amount of noise while hiking (talking, etc). Stayed in groups. Carried bear spray.
- -make noise occasionally while walking; -bring bear spray (didn't use it); -bring a gun (didn't use it)
- Make noise when in areas of cover where we might encounter a bear. Food & toiletries stored away from tent. Outfitter took many more precautions and gave an excellent briefing on prevention techniques.

- Make noise while hiking. Practice visual awareness (looking around a lot). No food in tents. Bear spray issued to all participants. Shotgun carried on raft portion of trip(not used)
- make noise, hike in groups, bear spray
- Make noise. No food in tents. Leftovers in river.
- Making noise (voices, clapping) when hiking. Carried bear spray. Kept food and anything with a smell away from tent area, some of which was in bear proof containers.
- Me or group? Did not touch clothes with hands after touching/eating food until wiped/washed hands. Put smelly food/items away from tent. Relied on guides stacking food containers in pyramid with noisy pots on top. Limited times I walked alone. Guides put food waste in river. Tried to be cleaner and neater than my fellow traveling companions. Talked, sang in brush.
- Metal Food Containers, Denali Triangle, and made noise in brush.
- My two dogs accompanied me and they are excellent bear dogs.
- No foods in tent, awareness, wash dishes away from camp.
- No food in tents
- No food in tents, separate cooking tent from sleeping tents, food stored in bear proof containers, pepper spray, hiking only in open areas.
- No food in tents. Carefully entered areas with decreased visibility.
- No food in tents. Carry pepper spray when hiking. Pile food at night with pans on top that would make noise if disturbed. Most food was in strapped metal boxes and coolers.
- No food in tents. We did carry a firearm & spray
- No food in the tents, all garbage put away, kept watch of our surroundings
- "No food items or other ""smelly"" items in or around tent. All food items stored except when preparing meals or eating. Travel in groups and maintain situational awareness."
- No food or odor producing substances in tent. Kept a clean camp. Talked loud when in vegetation, ravines, etc. Constant vigilance.
- No food or scented items allowed within the sleeping (tent) area. All personal items & snacks stored at the kitchen area.
- No food or scented stuff in tents. Burned smelly garbage in fire pan. Guides had a shot gun and hand guns. Vigilant review of surroundings. Hiking in groups.
- No smelly foods. Cooked away from camp and planes. Stored food away from planes and camp.
- No strategy at high altitudes. Watchful on coastal plain. Electric fence at low elevation in the Brooks Range.
- Noise and sealed metal containers
- Noise while hiking. Stay out of brush. Locate kitchen/food far from camp.
- Noise, close grouping of trip members, bear repellent carried (though not needed); All food and cooking was kept well away from tent areas.
- Noise, leaders checked out trails before we hiked, etc. They carried spray, but we never used it.
- None
- None
- None-I wanted to interact with bears. I wanted to shoot one.
- Not camp on game trails. Care in managing food. No food waste. Give bears an opportunity to identify us. Care in dense brush. Carried a firearm. No footprint camping practices.
- Nothing in particular
- Nothing in particular.
- Observation and noise-air horn and pepper spray
- observation, clean camp
- Obtained and used bear cans, carried bear spray, made lots of noise
- Our guides had firearms. We kept all food away from the tents, and in sealed containers

- Outfitter carried firearms and bear spray (neither was used); we never left camp alone-always hiked in groups of 4 or more.
- Pepper spray
- pepper spray
- PEPPER SPRAY; MAKE NOISE IN DENSE AREAS; STAY IN GROUP; RESPECT WILDLIFE.
- Placed cook camp downwind a ways from sleeping camp.
- Placed food in bear cans at least 100 feet away from the tents, as well as making noise as we hiked through areas of dense vegetation.
- Prevention such as: being alert, keeping camp clean, no smelly items in tents and bear spray.
- Protect - gun; Reduce interactions with - never slept with food/drink in tent
- Protect food, clean camp and camp in open space.
- Remove all food or other items with smell (e.g. toothpaste) from tents at night, cook tent kept a large distance from sleeping tents, keep together as a small group when walking, carry pepper spray at all times, make noise whenever walking in an area which did not have unobstructed visibility
- Safe camping
- safe camping techniques, bear spray, rifle
- sealed food bags & whistle
- Sealed food in metal containers and stored away from tents. Hiked typically in groups, carried bear spray.
- Secured food, remained alert, and carried spray.
- self-education on bear etc habits, awareness and alertness, bear spray, flare guns, and when we got near the coast, a 12G shotgun as a very last resort
- Separate and secure food. Bear spray and 12 gauge shotgun.
- Separated food from sleeping area. Stayed alert.
- Separated all food and anything that might have smelled like food and placed it away from the tenting area.
- Set up a kitchen tent away from our sleeping quarters. Removed all food items from tent and sleeping areas.
- Set up noise rope fences, elevated and hid food in two places, gun always handy
- Set up our camp in a triangle, keeping food and cooking far and downwind from our tents. Made noise when traveling through tall vegetation or going around blinds.
- Slept away from food. Traveled in a group.
- Slept away from kitchen. No food or personal items like toothpaste near or in tent.
- small arms, bear spray and made noise
- smart hiking; clean camping; cooked away from camp
- spray, flares, observation, caution
- Standard, recommended bear avoidance techniques
- Stayed clear as much as possible
- Stayed in a group, carried bear spray, made noise, stored food and toiletries away from campsite at night, food cache was in approved bear cans, packed out food scraps.
- Stayed in group. Stowed aromatic items away from tent.
- Stayed in groups.
- stayed observant
- Stayed with group; kept all food and smelly objects separate; had air horn handy; stayed aware.
- Store food away from tent. Prepare and eat food away from tent. Carry bear spray. Make noise when visibility was poor (i.e. when in brush or forest).

- Store food away from tents.
- Stored food away in sealed containers away from sleep tents. Kept a clean camp and had rifles in case of an encounter.
- Stored food in bear-proof canisters that were walked approximately 250m from tent. Bear spray carried. Scouted route using binoculars. Changed route when wildlife were sighted.
- Stored food in containers. We were looking for interactions with bears
- surrounding camp with cord connected to metal cans and nothing but sleeping with our rifles
- "talking as we walked, carried bear spray, kept toiletries and foods in a ""cook area"" "
- talking; carried bear spray
- The group placed all potentially attractive food items or toiletries in a common location away from tents. These items were surrounded with pots, pans, etc., that would likely would fall and make noise if disturbed.
- The guides carried bear spray.
- The guides were very careful about food preparation and storage. The human waste...(the sentence cut off in the email)
- The usual, lots of noise when hiking (plus bear spray). Food away from tents, etc.
- Time of year-March precluded grizzlies. Dogs kept other critters out of camp.
- travel and camp in a group, talk loudly, carry bear spray, stay aware
- Travel as group whenever possible
- Travel in a group. Sleep away from food. Keep food in plastic bags. Cook away from camp.
- Travel in group practically all the time. Lots of noise/talking while traveling.
- Travel in group. Secure food.
- Travel in groups of 3 or more. Pepper spray. Keep a clean camp site.
- Travel in groups of four, bear calls, bear spray, and look around a lot.
- Travel in groups, store food away from camp.
- Travel techniques (awareness of wind direction, foliage, etc.)
- Triangle - camp/food/latrine all >100' apart
- Tried to always be aware of my surroundings. I had bear spray and the guide had a gun.
- Under directions of our guides we kept a scrupulously clean camp-avoided use of scents.
- Use all the senses, electric wire, 3 hours on (sleep) 3 hours off. Bear proof containers
- Used a bear canister, carried pepper spray.
- Used bear barrels for all food and toiletry storage overnight; left no food matter at or near campsite
- used products with no scent and then put them and underwear in a container that was air tight
- Usual bear encounter avoidance techniques. Keeping a clean camp.
- Usual clean camp. Bear proof containers. Pepper Spray. Vigilance
- Very clean camp; no food or smells left out; carried air horns when going to the bathroom. Had bear spray. Guide had rifle
- View at safe distance. Bear spray.
- Vigilance...plus the guides carried guns.
- Visual Avoidance-had but did not use bear spray.
- Walked in a group. Carried bear spray and flares. Kept our food and cooking away from out tents. Protected it at night. No food waste.
- Walking & talking & observing. Bear spray.
- "We brought ""bear spray"" and flare guns to scare bears away. We also stayed together as a group while hiking, and we camped in close proximity to each other."
- "We carried a gun and pepper spray and kept our eyes open. We didn't actually use any ""techniques"" and didn't need them. "

- We carried bear bells; talked loudly, put all scented items in bear cans.
- We carried bear spray and signal flares in case of contact; to avoid contact we took care when hiking upwind and stored food away from tents.
- We carried pepper spray, ate and prepared food away from our tents, and washed all food wastes down river.
- We contained our food very well, especially any smelly garbage or food items. Also, F.Y.I.: we carried & used a toilet box to carry out our human solid waste.
- We had 2 cans of bear spray with us. We cooked about 150' -250' away from our camp and stored all of our food, trash and toiletries in bear cans. Both of us have worked for the Forest Service in bear country and so we have received lots of training and experience regarding bears. I'd say our brains were the most important tool we used. For the record, the closest bears we saw were about a mile and a half distant (we saw four in total). Of course, who knows about the ones we didn't see?
- We had a bear fence for our tent. We carried a 12 gauge and bear spray. We were 'bear' conscious at all times.
- we had bear spray and bear bangers with us for our day hike
- We had guns and bear spray. We have now begun using bear-proof cans to protect food. We cooked about 100 yards from the tents.
- We made plenty of noise when walking about (we had bear spray). We kept in groups.
- We tried to make bears aware of our approach in brushy areas by singing/shouting; avoided dense brush when feasible; paid attention to fresh bear signs; generally cooked/ate away from sleeping locations; stored food in a visible location away from tent sites.
- We use a 30 gallon bear barrel for camp and seal the rest of the food in the raft in the river.
- We used a food tent and each of us had bear spray.
- We used ursacks, carried a bear bell, and kept our kitchen 200+ feet away from our tent
- WE were vigilant and were in a group of at least 3.
- Yelling hey bear, staying in the open, being aware of surrounding. Each person carried bear spray and kept it hand.

q9a_j. Other (specify):

Rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge.

Respondents reported that the following items had a high influence on their decision to visit the Arctic National Wildlife Refuge:

- A chance to work in the last great place and see caribou.
- A friend was planning a trip.
- Ability to experience the Refuge with my kids
- above Arctic Circle
- absolutely unique place
- adventure travel
- aesthetics of landscapes
- Animal availability
- book I read years ago
- books and photographic exhibits
- burke museum seasons of life and land exhibit
- Caribou herds.

- challenge to be in wilderness
- Changing times - global warming and the effects on the ecosystem of this area.
- Climbing agenda.
- Commercial use permit holder.
- Conservation writers/photographers
- Contact with others that had done trip before.
- Dad's recommendation
- desire to experience true wilderness while we still have it
- EDUCATION
- Endless mountains
- Experience the arctic environment
- Family and friends sending me on this trip for my 40th birthday.
- Family was there 30 years ago.
- Fear that it will be despoiled.
- fishing
- Friend referral
- Friends
- Friends experiences
- Friends recommendation
- Friend's suggestion/desire to go there.
- Friends who have been there.
- Friends, books about people
- General local knowledge; I live in Fairbanks.
- Good chance for Gray-headed Chickadee
- Got invited on this trip.
- Great pack-rafting opportunities
- Group activity/outing
- High Arctic Mountaineering
- Hunt
- hunting
- Hunting
- hunting opportunities
- I have a good friend ...who is an Arctic protection activist. He played a big role in getting me to lead classes up there.
- I have been familiar with the area for 35 years.
- I'd been here before and loved that experience.
- I'm not getting any younger
- In addition to the refuge's wilderness character is the fact that this is one of the last great wilds. There are very few left in the world anymore.
- Information from air taxi
- job/guide
- Little or no Human Influence on the Landscape
- Mountain, landscape, people
- Mountaineering
- Murie Center Trip
- My job as a guide.
- Nature at It's Grandest
- nesting birds

- no night
- One of my favorite places to be
- opportunity to experience a large untouched wilderness with minimal human presence, past or present
- Opportunity to experience tundra and the geography of the Brooks Range.
- Opportunity to see caribou migration & friends who'd done the trip before.
- Opportunity to take trophy moose.
- Organized photo trip
- Other person's description of place.
- Other visitor's experiences
- passion for remote wilderness
- Past experiences in the refuge
- personal experience with fading
- Photography and experience
- Photography books of Refuge
- Previous travel in ANWR-Kongakut & Noatok Rivers
- previous trips
- prior trips to the refuge
- recommended by friends
- Revisit area to see if it retained wilderness character.
- school trip
- Seeing the Brooks Range.
- Sheep, caribou, moose and bear
- Sierra Club brochure
- Special beauty
- Subhankar's book
- the birds
- The right to hunt
- Time might be running out to see the refuge in its current pristine condition.
- To experience another area less touched by humans.
- To hunt some of the most beautiful land on earth.
- Undeveloped natural area, healthy wildlife populations
- Visited and hunted in 1986.
- Visiting one our last true wilderness areas
- Wanted to camp under the Northern Lights in the wilderness.
- Wanted to hunt the Brooks Range
- Wild River
- Wonderful previous trip in Refuge
- Working as guide

Respondents reported that the following items had a moderate influence on their decision to visit the Arctic National Wildlife Refuge:

- experience of friends
- Fishing
- Grey-headed Chickadee
- Hearing about others' experiences (from friends).
- wonderful tales from others who had visited the Refuge; books about the place and its history

Respondents 'other' specified items listed without a rating on their amount of influence on their decision to visit the Arctic National Wildlife Refuge:

- Charter pilot web site (Yukon Air)
- extensive prior experience of refuge
- friend
- Good airfare through a friend
- I know I love it-have gone there for 34 years.
- "movie: ""Being Caribou"""
- My 1st time visit to AK, this is exactly how I wanted to experience AK.
- Opportunity to experience 24-hr daylight
- recommendation from previous travelers
- Self digging up info.
- Sheep hunting opportunities without super steep terrain.
- to experience pristine, virgin land
- Visit wildest place in America.
- Writings by the Muries and others

q9b - If you were hunting, rate the following items on the amount of influence each had on your decision to visit the Arctic National Wildlife Refuge.

q9b_f. Other (specify):

Respondents reported that the following items had a high influence on their decision to visit the Arctic National Wildlife Refuge:

- being able to hike long daylight
- Commercial use permit holder
- Difficulty of hunting; i.e., challenge.
- Don't Hunt
- I went to the Brooks Range to hunt Caribou.
- Number of different species to hunt.
- Other visitors experiences
- "the ability to hunt caribou in a ""do it yourself"" experience w/ out having to spend a ton of money-most places in North America are only accessible for caribou hunting by flying in and having someone outfit or guide you"
- Unique float backpack wilderness hunt

Respondents reported that the following item had a slight influence on their decision to visit the Arctic National Wildlife Refuge:

- No alders

Q22 - Do you think you will take another trip to the Arctic National Wildlife Refuge after this year, but within the next five years?

- There were 239 'yes', 60 'no' and 14 left blank.

q22desc - Please indicate why or why not.

Respondents that reported 'yes' listed the following reasons:

- Want to see other parts of the refuge.
- 2010 is already planned for bear hunting
- A most beautiful and unspoiled place.
- adventure and exploration
- After camping, backpacking, fishing and hunting all over the lower 48 states this is by far the best Wilderness Experience I have ever had. I will continue to return until I'm too old!!!
- Amount of available country for exploration in little visited areas is unparalleled anywhere.
- Another sheep hunt trip.
- ANWR is my favorite place to spend late August through early September.
- Apply learning's from this trip to another. Lots of areas to visit!
- Backpack in ANWR every other year
- Beautiful place to visit and hunt
- Beautiful, accessible by airplane, rewarding.
- "Beauty. I will ""need"" to go back."
- Because I can't get enough of it.
- Because I enjoyed my last experience and want to hunt other game in the area.
- Because I love it there and I have a strong connection to the place.
- because i loved it so much i want to go back
- Because I want to take other friends to the Refuge
- Because I'm getting older and want to see it again to experience its beauty.
- because it's my favorite place in the whole world
- Because it's one of the most special places I've experienced.
- because it's there
- Because there are so many more rivers to run and life is short.
- because this was so enjoyable
- Best hiking in the world
- Commercial use permit holder hunting guide.
- Depends on the company that I sub-contract with.
- Enjoyed all it offered.
- exploration of areas I haven't been to
- Explore other areas
- Fascinating place (Brooks Range)
- floating and climbing
- For its awesome wilderness and wildlife.
- for sheep hunting and maybe hiking
- for the many reasons that i indicated above
- Going hunting again next year in the Refuge!
- Good area to hunt, hike, camp
- Great experience - want to explore other areas and take my sons to see it.
- Great hunting, fishing, hiking, rafting
- Hike more areas and float more rivers
- Hope to raft at least one other Arctic River in Alaska

- Hunt
- Hunt and hike, fish for char.
- Hunting
- Hunting
- Hunting game animals
- Hunting purposes
- Hunting.
- Hunting/fishing/sightseeing/camping
- I am currently planning a backpacking trip to enjoy wilderness on a scale I cannot elsewhere
- I am from Australia so to get there is quite an effort. I would love to return but am not sure I will have the opportunity again.
- I am planning on doing a 10-14 day solo trip. I have been on the major rivers, backpacked and know the pilots that can take me into and out of the areas that I want to visit.
- I anticipate bringing my children/grandchildren to this area
- I certainly hope to get back to the refuge as soon as possible, because it is an amazing place and was an amazing experience. Getting to the refuge again may pose a problem, however.
- I enjoy being in the wilderness. No man made structures. No traffic. No crowds. No trash. Using basic outdoor skills and seeing nature unobstructed.
- I feel it is a truly unique location, and in danger of irreversible damage due to climate change and human impact.
- I go to the Arctic every year because it is essential to my well-being.
- I guide there each year 3 or 4 trips.
- I had a great time on this trip. I will go hunting again in the ANWR.
- I had such a great experience. I can't wait to get back as soon as I can save the money.
- I have 3 kids in college right now.
- I have begun guiding in Arctic Alaska and I will specifically choose trips in the refuge.
- I hope so - I feel a connection to the landscape of the coastal plain and Arctic coast I've never felt anywhere else in the world.
- I hope so! I only saw a most minute area! Lots more to explore.
- I hope that I can spend at least 2-3 weeks each year up there for the rest of my life. It is the only place where I truly can touch my inner human spirit of survival and the origination of our basic human instincts.
- I hope to be able to do one a year for the rest of my life. I'm 52.
- I hope to work there as long as I can.
- I intend to visit ANWR annually as long as I have my health. I'll probably continue after I can't backpack which will require setting up of a base camp and day hiking from the camp.
- I intend to walk and photograph as much of this vast land as possible in my lifetime.
- I keep trying to catch the caribou migration, and I keep missing it!
- I lead backpack trips.
- I love it
- I love it. Most of all, I love the 24 hours of light on the bursting wildflowers on the Arctic Plain
- I love the Arctic
- I love the place and feel at my best there.
- I love the place.
- I love visiting the refuge.
- I love wilderness, wildlife, and Alaska.
- I loved it there. I will weigh the decision carefully. I feel that going back may have too great an impact on the area.

- I loved it. I really want to explore more of ANWR.
- I may take a work related trip.
- I plan to do a 12 day backpacking trip next year.
- I plan to spend a lot of the next few years guiding in the refuge as well as in Gates of the Arctic and other parts of the Arctic.
- I plan to take my Father sheep hunting.
- "I say ""yes"" as my strong desire but have no plans yet."
- I think I only experienced a small portion of the park and would like to see more.
- I try to go every year.
- I try to sheep hunt ANWR every year.
- I usually do a summer trip with friends in Fairbanks and Coldfoot and ANWR is a location we all like.
- I want to do more hunting there while I am still physically able to do so.
- I want to experience again the feelings I did this year. I want to see/experience many other rivers in the refuge.
- I want to return with my children.
- I want to see and experience more of this area - backpacking and sea kayaking in particular.
- I want to see the Arctic in a variety of moods and seasons. I cannot imagine not being able to experience it.
- I want to see the caribou migration and float more rivers and explore different areas...as well as do this very same trip again.
- I want to see the North Slope, and I would like to see the calving grounds.
- I want to see the Refuge in the fall.
- I will go sheep hunting as often as I can.
- I will take another trip unless human access needs to be limited. Keeping the area pristine without human activity is more important than me visiting the Refuge again. Except for Native activity.
- I will visit every summer.
- I would certainly like to visit the refuge again, so I checked yes. However, the expense to do so is considerable, and my age is somewhat advanced, so I may not be able to.
- I would like to explore more Arctic Rivers and experience a big Caribou migration.
- I would like to go back in the next few years, but it will depend on the trip cost.
- I would like to if I have the resources.
- I would like to lead a group of six interested individuals (most likely students) to the Refuge in hopes that their experience will inspire them to help promote protection of the Refuge.
- I would like to return either to the Kongakut River or another river.
- I would like to return to do another camping trip/tour.
- I would like to return when the caribou are migrating
- I would like to see the large caribou aggregations in late June.
- I would like to take more private trips and will also keep working in the area as a guide.
- I would like to visit the coastal plain to see wildlife and experience the nature and wildlife of this area.
- I would love to go back and experience the wide open, the mountains and rivers, the solitude, the quiet. I am interested in further mountain wandering, in river floating and in wildlife viewing.
- I would love to go back. There is a strong likelihood that we will.
- I'd like to experience the refuge as other than a guide. Guiding didn't leave much time for solitary reflection!
- I'd like to float another river or take a moderately strenuous backpacking trip

- I'd like to see other rivers in ANWR.
- If I can afford it and am physically able.
- If I can find the money, I hope to be back again within a few years
- If it is financially reasonable I will return within 5 years to experience the wildlife and great openness of the country.
- I'll go every summer my health allows. The Arctic is truly a glimpse into paradise.
- Interested in trips in Brooks Range in general, whether in or out of ANWR.
- It calls to me to return daily.
- It is a great place to visit and get away from crowds.
- It is a special place.
- It is a very special place on earth.
- It is an amazing place and there are fewer and fewer places like it.
- It is an amazing wilderness place, with a unique opportunity to see wildlife, experience isolation, self-reliance, physical and endurance testing
- It is an area I truly love, and I guide hunting trips in the area.
- it is an incredible place
- It is difficult to explain why, except that it may be one of the last true places that I know.
- it is one of my favorite areas, anywhere. i would love to get deep into the refuge, rather than just hike off the road.
- It is still wild country.
- It is the wildest place with big mountains and relatively close transition from mountains to coast.
- It refreshes my soul.
- It was a stunning experience and I would like to visit again.
- It's a great place to visit.
- It's a sacred place that I would love to experience if the opportunity became available again. Wilderness would be the primary reason for me to visit again.
- It's awesome.
- Its beauty and tranquility and wildness.
- Its lovely
- It's remote and wild. I'd still like to see a large herd of Caribou migrating and haven't been that lucky yet.
- It's unique, beautiful, truly awe inspiring, silent and mostly untouched by man-no one knows for how much longer.
- Like rafting and hiking, like vastness, clean air, vistas, solitude, quiet, adventure, living outdoors, being physically active, being so far from and inaccessible to civilization (cities, noise, poor air).
- Likely to return to experience other parts of the Refuge.
- Love it
- Love the vastness, wildlife, quiet, primitive, open nature of the place. Accessible wilderness, with plenty of challenge and solitude, and variety of terrain. Love the opportunity to observe caribou migration, drink clean water, and challenge myself.
- Loved it, want to see more.
- Maybe. Would like to experience more.
- Might try another river with a smaller, more compatible group.
- More photography & adventure
- much more to see & do
- "My class offering continues. Also I am writing an on-line book called ""Arctic gardens"" which is based on ethnographic interviews my students and I do in the villages and Fairbanks. I hope to have the first iteration of the book out on line this coming....."

- My daughter will be starting school at University of Alaska - Fairbanks in 2009, and I plan to take her to ANWR before she finishes school.
- My fiancée and I cherish wilderness, remoteness, self-reliance, wildlife and intact ecosystems. The Arctic National Wildlife Refuge represents a place where most of these occur in abundance - for now. Nearly every other wild place on Earth has lost
- My most-loved wilderness area in Alaska. Opportunities for solitude and discovery, wildlife encounters, large pristine wilderness all draw me.
- My summer work includes working as a guide in the Brooks Range, both in Gates of the Arctic and ANWR. The Refuge
- Need to experience this place again.
- No other location offers the solitude, wilderness, isolation, and self-reliance.
- One of many places in Alaska I haven't been to or seen. Lots of other (big and little) wilderness areas, etc. to see/experience while I can.
- One of the best places I've ever seen. I'll go back as soon as I can afford the travel.
- Other places to explore.
- Personal connection made to this wilderness, will need to return.
- Planning a private backpacking trip in the next 2-3 years.
- Planning another trip along Aichilik for 2010 or 2011 (backpacking).
- Planning another visit next year.
- Remote
- Remote Arctic river trips
- Remote caribou hunting
- see another river or area
- Sheep hunt
- sheep hunting
- Sheep hunting
- Solitude
- Special place, great experience
- Still so much to experience.
- The arctic refuge has rejuvenated my soul. I would take any opportunity i had to visit and experience this wild place.
- the challenge of hunting caribou in such an awesome environment-not just to hunt or chase a caribou-but the whole experience the refuge gives and the ability for the common person to do it w/ out breaking the bank
- The hunting for Dall sheep in ANWR is difficult and a challenge and represents the older stylemore traditional hunting methods where lots of walking, backpacking, etc. is required.
- the refuge is large, a true wilderness managed with a light touch, the arctic is fascinating, and the refuge bursts with life
- The Refuge is sacred. My soul is nourished there as nowhere else I've ever been. I will keep coming for as long as I can walk.
- The refuge is so vast there are many other areas to see.
- The solitude, and presence of game combined with the landscape of the Brooks Range are most important. I will likely hunt there again.
- The wilderness character of the Arctic Refuge is spectacular.
- There are still other places in the refuge to explore and experience.
- There is so much yet to see. I would like to spend time on the coastal plain.
- To do other rafting trips.
- To experience a true wilderness and share with others.

- To experience nature and solitude before it's lost. I fear the oil companies will eventually win.
- To experience the unique environment and wilderness of ANWR
- To go hunting again
- To go sheep hunting again.
- To share this amazing place with my daughters.
- To share with other
- To sheep hunt again when time permits
- To traverse and hunt the cont. divide for sheep.
- To visit the remoteness, vastness, quietness, all the things I agreed with.
- Uniquely beautiful and wonderful place.
- Very compelled to the landscape. Likely to guide again.
- Want to see more of the country in its wild grandeur
- We absolutely loved our trip, had a great experience and we will go back for more experiences like this.
- We enjoy float trips; will probably skip 2009, back in 2010.
- We hope to come every year.
- We love this place...can't stay away.
- We would like to hike in by ourselves rather than be on a group trip. It is a place that draws us due to the pristine and wild nature of the area.
- We'll keep running trips so long as our clients continue to book on them.
- Why not do it again?
- Wilderness travel; hunting
- wildness/wildlife
- will be leading one Alaska trip per year
- Wonderful experience. Look forward to going back.
- Work as assistant guide.
- Would like to do a Caribou trip in several years.
- Would like to travel on another river or possibly do a backpack trip.
- Would love to; it's just a matter of having the time available!!!!
- Yes, it was a good experience.

Respondents that reported 'no' listed the following reasons:

- Age now 76. 2) expense
- Actually I'm not sure, but am more interested in the less traveled areas of the state.
- As I mentioned, I wanted to experience the Arctic. I've now done that. It was a hard and expensive trip, and I will probably choose easier and cheaper trips in the future.
- Because I want to go to Bering Land Bridge National Monument next time I can make such a trip.
- cost
- Costs of getting older-so physical demands have impact.
- Cost, distance
- Difficult and expensive to access, challenging to travel in. It's okay that I may only visit it once. Time, money, and health permitting, I may come back at some point.
- Expense
- Expense of getting to ANWR.

- Expensive and interested in learning and experiencing other parts of the world; travel to do medical volunteer work outside USA.
- expensive and seek variety
- Expensive to revisit so soon.
- Far away and expensive
- Getting too old for backpacking!
- Getting too old, sorry to say!
- Great spot, just too expensive.
- I loved the Arctic Refuge, but it was a once in a lifetime trip.
- I want to, funding not available during grad school.
- I would like to, but it was expensive.
- I would really like to return, but I am not sure that it will happen in the next 5 years because there are other places in the world that I want to experience.
- I'd love to go back but 5 years is not a realistic timeframe for a return trip. So many other places to see! (And it's not a cheap trip...)
- I'd love to, but I doubt I can afford it...
- I'd rather see someplace new.
- I'm over 70 and there are a lot of other places I need to see.
- It cost a lot of money to go and to camp there. Flights, supplies, etc.
- It depends if congress opens up drilling...if so I will be there lying in front of the bulldozers! If not I will probably not visit to minimize my impact on the environment. I will definitely go back before I die...what an incredible place.
- It is expensive and there are many other places in the world I would like to see.
- It is very sad to visit due to the plight of the Refuge. If I were to visit again, I would likely focus on the Brooks Range versus the arctic plain due to the impact of loss of animals.
- It was a great trip, but it was expensive and there's a lot more in the country that I want to see. I wouldn't foreclose a future visit, though.
- It's a long way to get here. I'm afraid it may have been a once in a lifetime experience for me-and well worth the effort of getting here.
- It's really difficult and expensive to get all the way up there. But I would love to go again if I thought I would have the time and be able to afford it.
- It's too remote and expensive to get to.
- Many other places to explore in Alaska
- Money
- money and other places in the world to see
- My limited finances cannot support the high cost of airline tickets.
- Next summer, I want to visit the Western Arctic-Utukok river drainage possibly, to see the western caribou herd. Maybe at some time after that, I will return to the refuge.
- Other beautiful places to visit. The world is a big place.
- Our travel schedule reflects visits to areas other than ANWR in the coming years. We have, however, just returned from a 2-week visit to the Arctic including several days on Barter Island--which I think is technically a part of ANWR.
- Probably not due to the expense of getting in the Refuge.
- Probably not. There are places in Canada I would like to see.
- Probably not. It is very expensive and there are many places I want to see. I would, however, go again within that time if there were a trip specifically for birders. I was unable to learn all I wanted to about the birds we saw.
- Remote, expensive
- The world is big, and I have many other places to see!

- There are many different places I want to see and things I want to do. I have limited vacation time and limited money! The Arctic trip was the most expensive trip we have ever taken.
- There are so many other places I want to visit but I would return to ANWR.
- Thinking of trying different areas to hunt for other species.
- This trip was my first to Alaska. I love ANWR, but there are many other regions I'd like to visit. I would definitely like to go back at some point, but I doubt it will be in the next 5 years.
- Too expensive
- Too expensive at the current time.
- Too expensive to get there.
- too expensive, maybe time to quit burning so much fuel / resources
- Too many places to visit. We'll go back but likely not within the next 5 years.
- Will be traveling to other places that I haven't been to before.

Respondents that left q22 (*Do you think you will take another trip to the Arctic National Wildlife Refuge after this year, but within the next five years?*) blank listed the following reasons:

- Cost to fly in and out.
- Don't know
- Don't know but would like to. Travel expenses would be the obstacle.
- If Sarah Palin is elected Vice President, I'm likely going to boycott the state until she's out of office.
- It will depend on the group organized and my finances and the opportunity of other trips to places I haven't yet been to.

Q19 and General Comments by Main Topic and Visitor Type:

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - General	Yes	Yes	<p>Leave it the way it is now. No change.</p> <p>I had a wonderful experience.</p> <p>I would like to go back in the near future.</p>
Wilderness Protection - General	No	Yes	<p>Beware not to over introduce your presence in the Refuge. Leave it alone and wild.</p> <p>Re: q9b Not hunting. Re: q11a We didn't see anyone else. Guys, I had problems doing this electronically so I printed it and sent it in the mail.</p>
Wilderness Protection - General	No	Yes	<p>The refuge should be kept as wild and natural as possible. Wildlife and habitats should have first priority and if it means limiting tourism and access, then it should be limited.</p> <p>Oil drilling and other access to resources that can be depleted should be stopped at all costs. The refuge should be protected and maintained as wild and natural as possible.</p> <p>My experience was wonderful - one small group, one small airplane flying over and an opportunity to see a remote part of the world. I hope it will remain this remote for generations to come.</p> <p>'Thank you for your work in the refuge - I hope it results in preserving it as it is now for generations to come. There are fewer and fewer places in the US to see unspoiled nature and Alaska is spectacular. I've just tried to send this via Adobe but I'm not sure that worked so I'm going to attach the copy I saved. Sorry you had to send a post card reminder but it worked!</p>
Wilderness Protection - General	No	Yes	<p>Management practices that preserve the inherent character of this wilderness as an intact ecosystem. Limit recreational and development activities that significantly detract from that inherent character. I would gladly forgo ever visiting again should that be necessary to preserve the refuge as it is!! 'Please, please, please-- do not despoil this magnificent place!!</p>
Wilderness Protection - General	No	Yes	<p>There are so many discussions for each of these questions on this survey. I hope these responses help you with the preservation and protection of the Arctic Wildlife Refuge.</p> <p>One thing I wish to see is the requirement to carry human feces out of the refuge. My limited experience has shown me that there are many people traveling through the Kongakut Valley, more than I originally thought there would be. More people means the introduction of more human feces. I would at least like to see more education and information provided on this topic. It seems, no matter how many times we emphasized the importance to our clients, some people just did not get it or did not care. Maybe some concrete information on how to and why to would help promote responsible actions.</p> <p>Thank you! Keep it wild. No drilling!</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - General	No	No	This was my first trip to the Refuge and I may not be able to visit again. I very much appreciated the opportunity to experience it, despite the challenges of getting there and traveling in it. I would not want the experience to be any easier, although some facilities that would reduce human impact in more visited places might be appropriate. I prefer that most of the Refuge be barely accessible wilderness, preserved and protected for its ecology and wildlife.
Wilderness Protection - General	No	Yes	To me, a major uniqueness the Refuge holds is its quality of wilderness and its intact ecosystem. I'd like to see this idea reinforced through a strong public information campaign. I feel in most areas of the Refuge-the less traveled areas-education and encouragement of self-limitation and personal responsibility would be more effective than enforcement. Water quality is a concern in this area. I understand why the Refuge system publicly states water is not potable, but the people I work for as a guide, and myself, have been drinking water straight from the waterways there for over 25 years. We've never had guests get back to us saying they've been hit with giardia up to this point. We carry water filters and keep them offered throughout trips, but again drinking clean, safe, pure water unfiltered is a rare gift these days in wilderness travels through the world. To be able to do so, to me is a huge indicator and bonus of Arctic travel. By saying the water is unpotable give an unspoken "o.k." to the public users to not be as concerned and insistent on proper human waste etiquette as is necessary to maintain water purity. This is a major concern for me as a person who wants to keep drinking straight from the waterways. Education, education, education. It's fine to encourage water filtration, but I think equally important, or more so, is to deeply encourage in the lesser traveled areas, cat holes that are dug sustainably with enough distance and elevation away from drainage areas (dry or wet). For river systems that are most traveled (Re: The Kongakut in particular, the Hula, & the Canning Rivers) travelers should be required to pack out all human wastes. River travelers worldwide do this. Because there are such different modes of travel and also areas that are much more used then others, blanket policies wouldn't seem to work. I think there will have to be various levels of policy-some including enforcement and some less hard handed such as self-limitation. For example, the responses given in this survey pertaining to my experience at Sunset Pass, would be extremely different had I given them based on my trip to the Hulahula in late June/early July of this summer. There was much more evidence of people and their wastes encountered, more people seen at the put-in points, and we saw, heard, and were literally buzzed by numerous planes. I realize aircraft are what carry the majority of us into the Refuge and I know, relatively speaking, we are spoiled as folks that get to spend much time in the Arctic Refuge. This too is a gift though. I would like to see in addition to this survey-which I commend you all on in its quality-a gathering of commercial & private users along with the pilots who carry us in, and the Refuge system meet for discussions on use and policy. "Thank you all! Wonderful survey!! Re: q9aa - q9af N/A Re: q16a "Limit" scratched out and "Encourage self-limitation" written in. Re: q16i See A Re: q16r See C

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - General	No	Yes	<p>Keep it wild--prevent industrial development of any kind in all parts of the refuge. Allow for continued subsistence use within limits and capacity of resources and sensitive to the rapid ecological changes occurring due to climate change. Elevate the refuge as a scientific observatory and place of ecological study. Monitor wildlife and plant health and populations. Monitor human impacts in refuge--impacts of visitation, camping, aircraft, hunting, as well as the impacts of climate change, air-borne and sea-borne pollutants, etc. Regulate visitation: Limit group size and number of groups in popular regions of the refuge and regulate waste disposal, etc. Educate visitors on no trace camping, bear behavior, proper food storage, and advocate pepper spray. Keep names off of unnamed features. Reach out to the greater public who are unlikely to visit the refuge itself: promote awareness of the refuge, Arctic ecology and ecological changes in the Arctic ecosystem through interpretive opportunities outside of the refuge, such as programs in local schools, displays in visitor's centers in Fairbanks and Anchorage, etc. Thanks!</p>
Wilderness Protection - General	No	Yes	<p>Keep evidence and impact of humans at a minimum. Do not add signs, camp sites, trails and other detractors like this that other wild areas have. If that means reducing human access to Refuge than that must be done.</p> <p>Limit access if necessary in order to keep the Refuge pristine. No drilling.</p> <p>The Arctic Refuge should remain a pristine wilderness.</p>
Wilderness Protection - General	No	Yes	<p>The most important practical concern is the removal of human waste. We need to find a way to carry it out!!! Establishing port-a-potties at the most heavily used sites is a second best option.</p> <p>The most important asset of the Refuge is in its very name: it is a WILDLIFE REFUGE. It is, in my opinion, first and foremost, for the wildlife. That said, it is also vastly important for human beings to experience real wilderness, solitude and the vast space of this landscape. It helps us to feel, in our bones, the humility required to understand our relationship to the planet and all the life forms with which we share our beautiful home. The history that is important to me in the Refuge is the planet's history, the wildlife stories--of migration, for instance, and the history of indigenous peoples. The perspective I gain from this is invaluable!</p>
Wilderness Protection - General	No	Yes	<p>The refuge is a very special place in North America. Fiercely protect its wilderness character. Guard against agency tendency to "improve" facilities, etc. on the ground. Mandate Leave No Trace camping and then get out of the way.</p> <p>Thx for the survey. User input is valuable but not the only factor. The refuge is a sanctuary even if you never visit it. Protect it!</p>
Wilderness Protection - General	No	Yes	<p>Keep it like it is! No trails or signs or bridges.</p> <p>I am torn about the question to increase information about visiting the refuge. I know that if more people could visit they may feel the way I do and want to preserve the refuge. (Fight tooth and nail to keep the money grubbers from developing it for oil or anything else!) However, it greatly distresses me to think of the impact that increased visitation would have to the animals and plant life there.</p> <p>I think the primary purpose should be to keep one area on this planet as is for the creatures and flora that inhabit that space. It should be one place where humans should take a back seat to wilderness.</p> <p>I would leave it to people with greater knowledge about it than I about the maximum number of visitors and the maximum number of people in each group. Smaller certainly feels better as a visitor seeking wildlife observations and solitude.</p>

I am strongly opposed to campfires!' Thank you for your work!

Wilderness Protection - General	No	Yes	<p>Cost of commercial trips severely limits those who can experience the Refuge. Would like to have filled out another survey for the other trip that I took in 2008. It was a research trip with very different goals. Keep it wild! Keep learning about the people who visit the refuge. 'Re: q2 Respondent wrote 'Kongakut River strip upstream from Drain Creek river'(Illegible word-could have been left or 6 ft). I put in at '....'; Re: q16g & q16v 'Is there a problem?'; Re: q16l, q16m and q16n 'don't know enough about pros and cons'; Re: q16o 'the wildlife does a fine job establishing trails'; Re: q16p, q16q, q16t and q16u 'it is wilderness!'; Re: q16r 'if solar toilets, then possibly'; Re: q16s 'depends-if native names are applied-yes. BGN approves' (When the respondent wrote BGN, he may have been referring to the U.S. Board on Geographic Names) ; Re: q18a, q18b and q18c 'same as wilderness regulations'</p>
Wilderness Protection - General	No	Yes	<p>Oil drilling must not occur. Prohibit any and all extractive activities or development. To do any of these acts would be unconscionable. I have backpacked in wilderness areas throughout the lower 48 states for 40 years but ANWR is by far the most impressive. It must be left unviolated for the sakes of the wildlife, our children and our planet. It is unique, it is precious, it is sacred. Please honor the mission of the National Wildlife Refuge System and protect this refuge of wildlife. 'Re: Sorry for the paper copies but my Mac was not able to write text on your questionnaire. Re: q14h Depends on the officials and why.</p>
Wilderness Protection - General	No	Yes	<p>DON'T DO ANYTHING... in the sense that the land should be left alone and as natural as possible in every sense of the word.</p> <p>Planting sites, law enforcement, and port-a-potties detract from what it actually is to be wilderness as defined by the wilderness act.</p> <p>If anything, more support, education, and awareness should be conveyed to the general public so as to keep higher-level laws from getting passed which may allow the refuge to change. i.e. drilling!</p> <p>Thank you for keeping this wilderness so far. it's precious to humankind.*see attached survey</p> <p>Thank you. In... wilderness support...</p>
Wilderness Protection - General	No	No	<p>Do not develop the refuge - it is beautiful how it is and should stay that way. Increasing law enforcement presence heavily in remote areas of the refuge would do more harm/impact than good. Hunting for sport/trophy should be outlawed - only subsistence hunting should be allowed. Law enforcement efforts should be concentrated near access points along the Dalton Highway or at chartered plane airports where Refuge visitors could be briefed and checked for illegal plants/animals. Although only the most adventurous and experienced are likely to be attracted to the Refuge, an informational video or test should be administered to all visitors before their trip to ensure good LNT practices and how to deal with wildlife. Also, the Atigun Gorge was polluted more than I would have liked. That is an area where law-enforcement in the Refuge would be appropriate - a ranger checking campsites for illegal behavior and littering would cut down on littering and fines for such behavior could fund cleanup efforts. There were Styrofoam and scrap wood pieces everywhere. Also, it was clear that due to Pipeline activity upstream, the water quality was poorer than elsewhere in the refuge. Have studies been conducted to see how this is affecting wildlife and the quality of the Sagavanirktok River? 'Thank you for putting this survey together. It is very important to collect this sort of data. Are hunters surveyed? I'd be curious what their results are. Do you publish the results? I'd love to read them.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - General	No	No	<p>I think the refuge is MOST important for the flora and fauna, followed by the Gwich'en and Inupiat. However, I don't think even the Gwich'en and Inupiat have a right to degrade this wilderness character and place. I do think it should be open to others, as it is now, but I am willing to accept more constraints to keep this place wild and sustainable. Please let me know if you get this survey in a completed form.</p> <p>Since I don't have outlook express, it was difficult to figure out how to send you the completed form. Thanks. I am very concerned about the future and management of the refuge, so I very much want to be part of the survey. In general, most of the questions seemed good, but there were some that couldn't be answered so simply.</p>
Wilderness Protection - General	No	No	<p>I am very concerned about the future and management of the refuge, so I very much want to be part of the survey. In general, most of the questions seemed good, but there were some that couldn't be answered so simply. 'Re: q6a2 'Sierra Club trip'</p>
Wilderness Protection - General	No	No	<p>If visitor numbers increase, campsites at airstrips will probably have to be developed, or at least a waste system developed. With current numbers of visitors I don't believe this is necessary right now.</p> <p>I don't think that flying human waste out is an appropriate activity. A lot of Av gas is used to pick up loads that are heavier upon return than on entry. Visitors should be educated as to the appropriate methods for human waste disposal according to group size.</p> <p>I'm not sure that extended base camping should be encouraged, as it tends to leave a large impact regardless of numbers. I don't think group size should necessarily be limited, but long occupations of a particular spot by larger groups certainly have the potential to leave lasting impacts.</p>
Wilderness Protection - General	No	No	<p>The refuge should be managed as a wilderness area, where humans can pass through. Take measures to reduce human impact on the refuge and avoid doing anything that would increase the human presence (trails, campsites, etc.) Essentially work to keep it the wild, beautiful, untouched place it is today.</p>
Wilderness Protection - Experiences	Yes	No	<p>'ANWR includes such a variety. From the coastal plain to the foothills to the continental divide. It is so huge. Its vastness alone is a large part of its attraction for me. Plus it is so remote and difficult to access, it takes a real commitment just to visit. I would hate to see more restrictions to access or rules once you finally got there. ANWR should be big enough for the users it experiences. But most importantly the wilderness must be maintained even at the cost of development or recreational users. We cannot build trails, cabins, port-a-potties, etc. We do not want a huge park, we want a wild refuge. If rules of engagement are deemed necessary to protect that wilderness, I would begrudgingly support that, (i.e. limiting camps to gravel bars, limiting fires, etc.) So much of that is common sense. My experience there in the last ten years is that it is becoming more and more popular with hikers, rafters and hunters. But as of yet I have rarely come into contact with other users much less felt like it was crowded. I like that the agency is doing research and asking for opinions, this may highlight trouble spots that need to have some restrictions. But overall I feel that doing less will continue to provide the unique wilderness experience for years to come.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Experiences	No	Yes	<p>This was a first for me: my first trip to the Arctic, and my first such trek through completely undeveloped country. Bottom line is that the wild, unspoiled and isolated nature of the place made the experience. The fact that the landscape was so vast, and that I usually saw no people outside my group, meant that I actually slowed down and took to absorbing all around me. While I did some exploring, I also spent lots of time sitting and calmly observing. I appreciated that many features were unnamed, and that there were no official human routes evident (though I was following caribou trails most of the time).</p> <p>I would ask Refuge management to prioritize wildness above all else. I hope that folks can continue to trickle through that vast place without great effect, while experiencing an unaffected landscape and the wild creatures that survive there. In this spirit, I heartily endorse keeping the entire Refuge - including the coastal plain area - off limits to energy or other kinds of development. Thanks to</p>
Wilderness Protection - Experiences	No	Yes	<p>The unique thing about the refuge is that it is virtually untouched by humans, with the exception of the subsistence fishermen and hunters. With the exception of fish camps, there was no evidence of human influence on the trip that I took. This is very special. The refuge should be kept that way as much as possible. Do whatever it takes to preserve it as an ecosystem without human influence.</p>
Wilderness Protection - Experiences	No	Yes	<p>I very much enjoyed the rafting/camping/hiking experience. Can not think of a thing to complain about. Just hope it will keep being protected from oil or other developments. Thank you. 'Comment on front cover: Thank you for mailing this survey. I could not get it to work on the computer. Re: q18b and 18c Respondent wrote in '?; Re: q22 'maybe, but I have not traveled that much, and there is a lot to see and experience in this world.</p>
Wilderness Protection - Experiences	No	Yes	<p>The Refuge was a special trip, although it was a physically and psychologically demanding and expensive trip. As a result, it's not necessarily a trip I would choose to repeat.</p> <p>I wanted an authentic arctic experience and I think I got it. This would be degraded by changing the wilderness nature of the area. Sure, from my viewpoint as a visitor, it would be great to have better support services for visitors. But then it wouldn't be a wilderness, so it would become a different place with a different experience offered to visitors. I'm grateful that there are places like this that aren't managed to promote visitation. Leave it the way nature built it, and let truly motivated visitors find a way to experience it on those terms.</p> <p>Obviously, any oil development would destroy the wilderness value of the Refuge and therefore is inconsistent with a place that still works as nature intended it.</p>
Wilderness Protection - Experiences	No	Yes	<p>The Refuge is truly the embodiment of wildness. At the Arctic Village airport kiosk the quotes from the Muries and others capture this experience well. I would favor any management designed to preserve the wilderness experience in the Refuge. Our trip was between two large rivers in the Brooks Range in quite remote areas. We encountered only hunting guides and groups at the end of the trip, just as the sheep season was starting. Thanks for your good work!</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Experiences	No	Yes	<p>The best part of the trip for me was being in a place that was free of the signs of civilization. Therefore I don't look for the Refuge to have more "creature comforts" like trails and signage.</p> <p>We saw only one group of hikers (through our binoculars) while on the river, and that was wonderful. It may have been unusual (this was in July) but we didn't experience any congestion at the put-in or take-out spots. That would have detracted from the experience, as would aircraft and helicopter traffic. (We had none, other at the put -in point, where another party was dropped off the day after we arrived but before we got on the river.</p>
Wilderness Protection - Experiences	No	Yes	<p>I hope this kind of experience is available for future generations. Even if it is a once in a lifetime trip due to the great distance and cost to get there. 'My wife and I were notified via two of your postal cards that we had not completed the ANWR visitor questionnaire. We never received them via email (our preference). If you can, please send the questionnaires and we will be happy to fill them out. Since our preference of email apparently didn't work, maybe it's better to just send them through regular mail. I know that works because we received the cards.</p>
Wilderness Protection - Experiences	No	Yes	<p>I found our trip to ANWR to be something really special. We were lucky to have a picture perfect day, beautiful weather. We were also fortunate to go in September. The tundra colors were stunning. We were able to see grizzly bears, a polar bear, musk oxen, snow geese by the thousands, thousands of caribou, and some of the most beautiful scenery on earth. Our pilot was.... He was very knowledgeable of the geology and biology of the area. He made the trip much richer than it might have been with another pilot. I believe the refuge has benefited greatly from its remoteness. Being difficult and expensive to get to has limited the human impact on the refuge. I hope it continues this way. Personally, I would like to see the area of the refuge expanded. Whatever oil or minerals may be in the refuge, the quantities won't be sufficient to change the course of human events across the nation or world. We have so few beautiful places left on earth where the natural beauty has not been compromised by excessive human presence. Please try your best to keep this one special place as pristine as possible. 'If I can be of any other assistance please let me know. I believe you are doing a fantastic job of managing ANWR. If you would like to see or use any of our pictures let me know.</p>
Wilderness Protection - Experiences	Yes	Yes	<p>My experience was being dropped into a base camp by super cub and then backpacking the entire trip in pursuit of sheep and caribou. During the entire trip I saw but two other humans at a distance. This was moderately acceptable. I would have preferred not seeing other than our small party. Still, I understand that there is a critical balance between people being able to experience the refuge and its unique wilderness atmosphere and yet not over doing it. I suspect that controlling the river float trips is more important and doable than limiting fly in hunting drop camps. Do to the remoteness of the area, the limited licenses available and expense of this latter type of access, it is unlikely that further management is necessary. My experiences in my home state is that over management can sometimes be more detrimental than under management.</p> <p>I guess I was a bit surprised at not seeing more wildlife than I did. I did see many sheep and numerous bear but not a caribou or moose though we saw much evidence of them in the area recently. Yet, I also understand the migration patterns of both moose and caribou. I suspect that the game populations are appropriate considering this habitat. However it is done, more people need to understand and experience the uniqueness and beauty of this place first hand. The more that do the more likely it will be to resist it's losing to other interests.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Experiences	Yes	No	Wildlife and wilderness should trump visitor demands. I do hope my children will be able to have the type of experience I had on the Refuge.
Wilderness Protection - Experiences	No	Yes	<p>Should keep ANWR in its most natural state, allowing for harmony of the natural world. Same time, it is important that people be allowed to view this area, to walk thru it, to experience this part of our creation. ANWR should be left to its natural state, not turned into an easily accessible tourist opportunity. The vastness, solitude, remote wilderness mandates that a person fully prepare for this type of experience, it's a huge part of the trip. Although I spent 18 days on the trail, I spent a total of 6 months of preparation, physically, mentally, financially. For me it was type of spiritual, sacred, wilderness encounter that I may never find again, given my own resources. If I can return, I will; until then, I'll read and learn what more I can do.</p> <p>'Hi, thanks so much for sending me the Arctic Refuge Survey. I will indeed thoughtfully respond. I had the privilege of hiking/canoeing 90 miles north of the Brooks Range to the Beaufort Sea this past June, an adventure of a lifetime . . . I miss it now.</p>
Wilderness Protection - Experiences	No	Yes	<p>I had a wonderful experience with ANWR. I appreciate the pristine beauty of the wilderness. I so want that parts of our earth remain untouched by corporate, governmental, and private greed. Other species deserve to have space on this planet that they can journey freely and not have risks of oil spills and other man-made discard and ruin. Man needs to learn to honor and respect nature. Man needs to learn to leave parts of this earth untouched.</p> <p>I appreciated limited use while I was in the refuge. We saw very few other people. It truly gave me a sense of just how small I am in the vast wilderness.</p> <p>'Thank you for all of your work and efforts in maintaining the ANWR. I'm grateful that I had the honor of seeing this beautiful refuge. Thank you for your work in preserving our land</p>
Wilderness Protection - Experiences	No	Yes	<p>I enjoyed the trip because we, as a group, were alone. If a crowd is desired, go to the mall.</p> <p>The only airplanes we saw were the bush pilots doing a fly-by to make sure everything is okay.</p> <p>My attraction to this refuge and the areas I tend to visit is raw nature. I come prepared; I take only pictures and leave only footprints. If everyone abides by this simple concept, the natural beauty will be there for generations to come. 'This should get the survey to you. Hope you find it helpful.</p>
Wilderness Protection - Experiences	No	Yes	<p>It was one of the most amazing experiences in my life, and I am well traveled. I left exhilarated. I am looking forward to coming back to ANWR. 'Please save ANWR. It would be much smarter if we develop alternative energies than destroy ANWR for oil.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Experiences	No	Yes	<p>As a long time guide in the refuge, I understand the need for management of the resource. However, I think that the refuge needs to better understand the needs of commercial outfitters. There is a minimal difference between having 9 people on a float trip and 12 people.</p> <p>There are some high-use areas such as the Kongakut River that require a more aggressive management strategy for both commercial and private operators. I haven't been on the Kongakut for a number of years, but I've heard the problems that were experienced in the late 90s have escalated.</p> <p>The refuge is a very special place- and de facto opened and available to just a few people each summer due to cost and logistics. However, the economic impact of the current small scale ecotourism guiding operations is an appropriate business model for the refuge.</p> <p>We were deeply disappointed to see trash and a caribou gut carcass left behind by a hunting party at our take-out on the Canning. That was a real downer to an otherwise pristine experience.</p>
Wilderness Protection - Experiences	No	Yes	This is a place unlike almost any other in our country. Any efforts to develop it in any significant way would deprive future generations of an opportunity to experience something that is still largely wild and untouched by humans. If left as it is, I believe that it will best service nature and the people who appreciate it.
Wilderness Protection - Experiences	No	Yes	While I have backpacked for over 40 years in the Western U.S., my rafting/hiking trip in ANWR was unique for the remoteness and vastness of the area and the unusual geology. This national treasure should be preserved for future generation is as pristine a condition as possible. 'Re: q10l * Re: q10p fossils and arrowheads; Re: q12f Our bush pilot landed 3 or 4 times to collect/deposit us.
Wilderness Protection - Experiences	No	Yes	I have traveled to many, many places and I am a regular backpacker into remote areas and ANWR is the _only_ place I have ever been where there was no evidence of human beings. That fact alone makes it very special and unique. Management should maintain the Refuge so that humans are not able to leave any trace of their visit. 'I loved the remoteness of the Refuge and the fact that I saw no evidence of human except at the end of our trip when hunting groups arrived via plane. It is rare to be somewhere where there is no trash, no footprints, no trails, no plane contrails, and no human made noise. What a pleasure and a treasure!
Wilderness Protection - Experiences	No	No	The Refuge should be kept wild. The addition of bridges, campsites, etc would take a lot away from the wilderness experience that Arctic represents. Those willing or wanting to experience the area should not expect the 'normal' conveniences of other parks or refuges.
Wilderness Protection - Experiences	No	No	My experience was the perfect wilderness trip. This place must be protected for future generations to share my experience. 'Protect the Porcupine Caribou herd.
Wilderness Protection - Experiences	No	No	Let the refuge stay the way it is - a wilderness that we are lucky to be able to experience. It is not ours to change; the animals and plants there have more right to be there than we do. After spending several days in the refuge, I feel like it is a part of me, and I would be absolutely devastated if the refuge was to become a commercialized "nature" location like the Grand Canyon. I love the refuge and hope it can stay wild as it is for ever.

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Experiences	No	No	It was physically and spiritually fulfilling to feel a part of such a vast and wild landscape. Please avoid adding structures and anything that leaves a permanent footprint on the land. Thanks. 'Thanks for asking!
Wilderness Protection - Experiences	No	No	I believe in the case of Arctic National Wildlife Refuge less management is a good thing. The wilderness experience this area provides including freedom of exploration , self reliance, tie to history, and the sense of adventure is very unique and can not be found in other areas. This wilderness experience needs to be protected. This experience can be best protected in my mind by not providing services of any kind including and especially trails, route descriptions, and designated campsites. The wilderness traveler here can have an experience of setting into the unknown that can no longer be found any where else; this is what makes it so special. The only thing from a pro management side I want to recommend is "no plane zones" within the refuge to help protect solitude and the wilderness experience. I ask you today to do everything you can to protect the solitude, untrammelled landscape, sense of adventure, tie to the past, and sense of uncertainty visitors feel today so that the Refuge will provide a wilderness experience that no longer can be found in any other place. I also urge you to speak against energy development of any kind in the Refuge as this would not be compatible in anyway to the wilderness experience I have talked about above. 'Please keep the Refuge untouched by modern man so that my kids may have the same experience I have been lucky enough to have.
Wilderness Protection - Experiences	No	No	This was our 5th trip to Alaska and 3rd to the Refuge. The Refuge has come to symbolize all that is good about our natural world. It saddens me to think that it is being used as a pawn for political gain. Those that support changes in the Refuge (either from drilling, commercialization etc) have most likely never set foot on the soil or spent any significant time there for if they did they would experience the magic of this sacred place. The Refuge needs to be managed to reduce human and modern impact whenever possible. Should this result in constraints or additional steps for my next visit so be it... it would be a small price to pay to secure the Refuge for future generations. The "wildness" of the place, its remoteness, ones ability to take care on oneself, allowing nature do what nature does all contribute to the character of the Refuge. To be where people of past generations have been, to see them in ones imagination is to become a part of the land itself. There is no way to describe the beauty and the magic of such a place. Having been around the world, having hiked and camped and traveled, the Refuge truly is a special place in our world physically, mentally and spiritually. I would love to do all that I can to help perpetuate what the Refuge is for all eternity. 'I would welcome the opportunity to discuss this survey and our experiences should they be helpful. You can contact me...
Wilderness Protection - Resources	No	Yes	Avoid exploiting natural resources. Encourage visits by experienced wilderness travelers. Allow moderate access to hunters. 'Re: q12m1 'yes'
Wilderness Protection - Resources	No	Yes	Do not develop this place into a "park" with trails, signs, etc. Leave it wild. There are some rivers, such as the Kongakut that may need to have a permit system. The day after we arrived on the Jago, 3 different groups were dropped at the Kongakut. (We got this info from our bush pilot who was going to be ferrying those groups from Arctic Village.) There is a danger in "loving a place to death." Please don't let them drill for oil or have access to off-shore drilling through this place.
Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Resources	No	Yes	Maintain A.N.W.R. as wilderness throughout. No "predator control". No oil development-ever. Work to dedicate it as a wilderness area. Severely limit hunting and fishing to minimal subsistence. 'Re: q12e hunting camp Re: q12f not our own

Wilderness Protection - Resources	No	Yes	This fragile environment needs protection from over use by people and development.
Wilderness Protection - Resources	No	Yes	Leave it alone for its own sake. Untouched. Pristine. It truly is one of the last great places on earth. Maybe the last great place. Have the wisdom and the courage to just leave it alone. Make sure the guide outfitters manage themselves so you don't have over-lapping groups going down a river at the same time. You know, I have been to places that might be considered more beautiful, more dramatic-but I have not been anywhere that has affected me more the Arctic National Wildlife Refuge. 'Re: q13d Oh please... Re: q18a including guide
Wilderness Protection - Resources	No	No	The Arctic Refuge is a very special place-one of the few remaining bastions of wild nature on the planet. Drilling in the 1002 must not occur. The coastal plain should become designated wilderness in its entirety. Management should do as little as possible to maintain the wild nature of the Refuge. In case of habitat degradation from human use, regulations may be needed. Continue the tradition and practice of not naming features, building trails, etc. Survey and monitoring work is important, but it should be carried out with as little impact as possible. It wasn't that hard for one friend and me to organize a three week trip. There are enough resources available for people with a modicum of experience to do the same. In three weeks-50,000 caribou, 20 Ursus arctos, 7 moose, 2 fox, 1 wolf track, 0 people-good trip. 'Re: q9aa (books) Re: q10r Sense of uncertainty in flying was slight; flying itself was great! Re: q12 I read access & departure as in the Refuge, not Arctic Village.
Wilderness Protection - Resources	No	Yes	What a fantastic place! I believe it is worth preserving for nature and the animals, with only visits by human beings. Re: q16f where? When? Re: q16l and/or m 'not clear'
Wilderness Protection - Resources	No	Yes	Protect the refuge and not impede nature should be the primary objectives. Increasing public awareness of the refuge is tantamount to achieving this. I also strongly believe that management should limit the number of groups that are allowed to put in on a daily or some other set basis. This will help minimize the human impact as well as enhance the experience of visitors within the refuge. 'Re: q9b N/A
Wilderness Protection - Resources	No	Yes	Never allow drilling, road building or any development. Visiting the refuge was the highlight of my life. We have to protect it. 'Re: q9b Did not hunt
Wilderness Protection - Resources	No	Yes	Maintaining the refuge in its most pristine condition is a priority. It should not be "developed" in any way and those visiting should respect the land and the wildlife that are the rightful "owners" of the place. We have been to the refuge three times, on paddle boats and in canoes and we treasure our experience there beyond measure. We've traveled around the world and lived in Asia, the Caribbean and North Africa and this place occupies the premiere place in our hearts. We are committed to doing anything we can do to prevent its being spoiled. Our energies and our financial resources are at the disposal of the refuge.

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Resources	No	Yes	All management should be concentrated on protecting wildlife and wilderness values- not on catering to human desires. People will destroy the refuge if not severely controlled. The human waste problem must be resolved by packing it out. This is not rocket science. Get the pilots back on board to facilitate a resolution. We don't like to go to the Arctic and pollute. It's crazy. And stop poaching and other damaging activities by yahoos. Thank you for the survey. It's an indication that you care too, despite the Bush administration's willingness to sacrifice all nature for the sake of financial gain. The Arctic exists for itself, not for you or me to exploit. Re: q9b There should be no hunting! Re: q11 No visitors. Re: q14h!! Re: q16r Not in refuge! Pack it out/Green River, Utah.
Wilderness Protection - Resources	No	Yes	Let nature rule in the last great wild place in America. I hope this process has worked. I am not certain that the contents can be read. Please let me know.
Wilderness Protection - Resources	No	Yes	Limit number of groups to maintain pristine nature, if necessary. Prohibit oil drilling anywhere in ANWR. Keep ANWR wild and natural.
Wilderness Protection - Resources	No	Yes	Management of the resource should as its goal, be aimed at the conservation of the resource, and the protection of the ecosystem as an entity fro the long run. 'Re: q11 Saw no other parties. Re: q12c our pilot Re: q12f ours Re: q12g some (I put a numeric value of 99) Re: q12h some (I put a numeric value of 99)
Wilderness Protection - Resources	No	No	In general I think that protection of habitat and species are the most important values. Human use and enjoyment are also important but they are always secondary to protection of the land and animals. In this sense, enhancement and protection of my personal experience is not that important since, by definition, I could not have my experience without the animals and habitat found in the Refuge. 'Re: q10r1 '?' Re: q10r2 N/A Re: q11a and q11e 'N/A'
Wilderness Protection - Resources	No	No	1. Protect the wilderness values of the refuge. 2. Limit access or group sizes to protect refuge. 3. Prevent oil/gas exploration and development. 4. Do not establish trails or camp sites.
Wilderness Protection - Resources	No	No	Keep in natural. Keep it off-limits to Development. Keep it wild. Limit group sizes, to limit impact, wear & tear. Educate people about not camping on fragile services. I saw lots of plants destroyed where they'd grown before when I worked as a guide on 1 trip about 4 years ago. Require camping on gravel only. Prohibit campfires. They are not needed for cooking or warmth. I saw 2 places where I had to dismantle prior fire pits. Charred stones and partially burned wood. Teach people about not walking in the same route as other members of group. Spread out to avoid developing paths. Commercial outfitters need to be trained in these issues and must guide their guests to comply. 'Re: q12d1 Same groups were seen multiple times.

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - Resources	No	No	<p>The refuge is an amazing place and should be preserved as is. I have never been anyplace else that was so remote with no evidence of previous human activities. We didn't encounter any other groups until our takeout spot on the Kongakut. Luckily, they were across the way and we didn't have to interact with them. After 12 days by ourselves, it was a little startling to see someone else.</p> <p>We saw thousands of caribou during our trip. I would hate to see any development that would impact these caribou. The animals are not used to human activity and development would negatively impact their existence. 'One of your questions was about whether your trip was doing it yourself or guided. We went with the Sierra Club which is not quite a commercial guiding company.</p>
Wilderness Protection - oil drilling	Yes	Yes	Access and use currently well balanced. Allow limited gas/oil extraction. Better education for F&G agents. Allow more training funds. Where have all the Musk Ox gone, only saw 3. 'Online survey does not upload. Waste of time!! You discover this after completion. Re: q13x '?'
Wilderness Protection - oil drilling	Yes	No	<p>I did not answer Q17, but my preferred answer would be to give resident Alaskans priority over any other groups...</p> <p>I loved the undeveloped nature of ANWR and the attributes that are allowed to flourish because of its undeveloped nature. However, I would not oppose opening a small portion, especially on the coastal plain for energy exploration/development.</p>
Wilderness Protection - oil drilling	No	No	Drill oil. They say that it will hurt the caribou calving grounds and whatever. That is B.S. The reason the caribou is there is human presence. They are more likely not to see predators. The same reason you see them in towns and cities. They can't be hunted and the chance of predators is less likely.
Wilderness Protection - oil drilling	No	Yes	Please keep the oil companies out!
Wilderness Protection - oil drilling	No	Yes	Protect the refuge from oil exploration.
Wilderness Protection - oil drilling	No	Yes	First, I forget the name of the drainage where we put in, but I was on the Kongakut River with Alaska Discovery, so that information should be available. I guess refuge management can't prohibit drilling in the refuge, but that seems most important at this time. I do think meetings and trips into the refuge for legislators is very important to give them a sense of the area and to teach them about how much habitat it takes to sustain wildlife.
Wilderness Protection - oil drilling	No	No	I believe it is important for refuge management to become actively involved in the protection of the Refuge from oil development. The area is an extremely significant resource to our country, but one that should be protected, not destroyed or altered for the short-term economic gain of a few. 'Thank you!
Wilderness Protection - oil drilling	Yes	Yes	No oil exploration in the ANWR! 'No oil exploration in the ANWR!
Wilderness Protection - oil drilling	No	Yes	Deep the oil company out! This includes the 1002 area.

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - oil drilling	No	Yes	Do not open the 1002 area to oil drilling. Encourage responsible camping and waste disposal practice with information at access points(villages, not remote strips) but not with closures and signs. Encourage native users to cut down on levels of trash and campsite impacts. 'Survey attached, hopefully. Thank you for doing this study. Protect the refuge as it is forever, please.
Wilderness Protection - oil drilling	No	Yes	The refuge is a sacred place. It should not be sacrificed to resource extraction or fun. 'I filled out the survey a few days ago, and it failed to save and also crashed my computer. you may have a software problem of some sort.
Wilderness Protection - oil drilling	No	Yes	'We had a wonderful trip and an incredible, life changing experience. ANWR is an amazing place and we should do everything we can to protect it for ourselves and future generations and that includes NO MORE DRILLING! The guides we had were very respectful, knowledgeable and we felt very safe with them. We learned a lot about the flora and fauna and they greatly enhanced our experience. I still get a peaceful feeling when I think about our trip and I am very thankful that I was able to experience ANWR and all of it's wonderful, magical gifts! I would go back in a minute and hope to see more of this wonderful land that is ours to protect as a national treasure. I like that it is kept wild and your need to practice self-reliance to experience it. We need more wild spaces like this! It is breath taking and makes you stop and think about your place in the world. 'Please do all you can to protect this special place from future development and exploitation'. We support organizations that protect the treasures of ANWR and will continue to do so.
Wilderness Protection - oil drilling	No	Yes	Keep out the oil drilling companies! 'Re: q27b Me!
Wilderness Protection - oil drilling	No	Yes	Keep this region off-limits to energy development.
Wilderness Protection - oil drilling	No	No	I had a great experience with a great group of friends. It was a private trip so the cost was reasonable. Please, please don't allow drilling in the Arctic Refuge or in the Beaufort Sea. 'Re: q6a 'private trip-flown in by Wright Air'
Wilderness Protection - oil drilling	No	No	<p>'1. Keep big oil and government from drilling in 1002. 2. I think you have done superb job in maintaining beauty of area since 1960. 3. How will you keep wilderness character if Inuit and Gwichin start building cabins on in holdings and inviting four operators in?</p> <p>'Re: Q12g1 'Many going to hunt upriver in August' (I entered a value of 99) 1. Your questions need to be carefully re-evaluated. Some seem redundant and others not wholly clear. 2. You omit (purposely?) questions about two basic management issues about which the public should be queried: a. Drilling in 1002. b. Details about Inuit and Gwichin rights to hunt, method of hunting, use of in holdings, etc. Re: q10b Not relevant-only planned to camp at one site. Re: q10j Birds enjoyable; almost no large animals seen. Re: q12g1 Many going to hunt upriver in August. Re: q13a How does this differ from tourism? Re: q13o Sub arctic Re: q13s traditional Re: q13x implies (s), (u), (v) and (bb) Re: q14b No building or 'station' number sites to measure monitor weather with equipment only is o.k. Re: q14f small only-no large airstrips; Re: q15d There are other good places in Alaska. The word best was underlined and had a question mark. Re: q15e almost same as (c). Re: q16f How? Cabins -no hunting season-more enforcement. Re: q21 Underlined 'are you taking' and wrote 'have you taken' and wrote 2008 above the highlighted words 'this year'.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - oil drilling	No	No	Keep it wild. Keep it a do it yourself possible area. I like the hands off management style here. I understand why national parks are intensely managed but I prefer less / self, management. I certainly hope oil exploration is never allowed. This is the only piece of arctic America / Alaska where drilling is NOT allowed. Even if the caribou survive the wildness of the place won't
Wilderness Protection - oil drilling	No	No	Maintain the Wilderness Stature to insure enjoyment for future generations of Americans. Eliminate any thought to drill or mine to solve short term energy needs.
Wilderness Protection - oil drilling	No	No	After visiting, as well as after discussing with our bush pilot and a geologist who we met at airstrip who was working in ANWR, I believe we need to protect the land area and never allow large scale commercial oil activity. This area is too special in so many ways, and I hope that my children are able to someday visit and see the untouched wilderness. The cost is generally prohibitive for large scale visiting anyway, and I would not change anything, including adding more restrictions. There are plenty already. ANWR may represent the last great wilderness in US/world and we have a real chance of maintaining that forever. The value of this is profound but certainly more than the value of every drop of oil that could be pulled out of the area. As stewards of nature we have an special opportunity for honoring and protecting one of the most precious spots on earth. No economic value should ever get in the way of that.
Wilderness Protection - animals	Yes	No	The refuge should be a place for the preservation of wildlife, land and processes for posterity. Re: Hunting *A member of our group shot a caribou, which we ate. I understand the place hunting occupies here, but don't believe that it is the purpose of the refuge. Hunting should be the by-product of a healthy, functioning system. A system that exists first and foremost for the animals and natural processes. The refuge should not be managed to maximize things humans like to shoot, at the expense of a natural system. *Manipulation of sheep herd demographics to maximize human hunting opportunities seems the antithesis of a place called a wildlife refuge. *We spoke to a man whose son had just shot a grizzly bear solely because he had never killed a "big game" animal before. Pointless removal of apex predators (this includes wolves) strikes me as extremely poor management. Re: Oil *The clamor to drill every last known drop of oil now is a great "..." to all future generations of humans and to an amazing
Wilderness Protection - animals	Yes	No	I am not in favor of wildlife harassment whether it is for "research" or "management" or pleasure. This includes tranquilizing, radio collaring, catch/release fishing and any other kind of interference with their natural lives. What gives us the right?
Wilderness Protection - animals	No	Yes	Protect the animals from human-generated degradation of their environment. Leave it alone, so it will remain a place that humans don't influence anymore than necessary.

Main Topic	Hunt	Guide /OF	Survey Comments
Wilderness Protection - animals	Yes	Yes	<p>The refuge needs to begin predator control of wolves. I have found so many Dall Sheep remains, especially full curl rams that have been decimated by wolves. Believe me, I'm more of a naturalist than many others in this great state; but the wolves will eat themselves out of this area. And I know exactly what that entails. I've witnessed it in other parts of Alaska that I previously guided in. I'm sure your agency will do nothing about the problem though. In my experience's over the past 13 years, I've come to the conclusion that, "Your", usually the problem.</p> <p>'Re: q7b 'To burn trash.' On the back cover: ANWR needs to manage the wolf population. Yes, I'm a hunting guide, but also a well-educated human being academically, and a naturalist. That said, I truly hope you will take a better look at the onslaught of Dall Sheep killed by wolves. Caribou and Moose also take a pounding. ANWR holds a special place in my heart, as does Kodiak Island, where I guide Brown Bear hunts. I hope somehow we can all come to some kind of understanding on this "Sacred Place". I truly pray for Alaska, "To The Nature Gods", and also for ANWR, that it can all work out. I also believe we should drill ANWR for oil. Only if it is done correctly, which is proven it can be. Please keep me informed of all information on this report. Also, please don't be too, "Green", on this matter; it is how many of us make a living in the 49th state. Take care and stay healthy. P.s. Noticed this study is out of Missoula. Used to fly fish in Yellowstone on the Lamar River, out of Cook City. Beautiful area, first time this Minnesota Native had ever seen the mountains.</p>
Wilderness Protection - animals	Yes	No	Limit the number of trophy Rams (Dall sheep) taken out each year. More wolf predator control. (Seen many wolves within a 30 sq. mile area)
Wilderness Protection - animals	No	Yes	ANWR is wilderness personified, a large, humbling place belonging only to the animals that call it home, and in which we are but fleeting visitors. The idea of its being sullied by oil drilling and the accompanying degradation that has been proven to be its inevitable accompaniment is beyond obscene. Please-keep it just as it is, or rather let it be itself.
Wilderness Protection - animals	No	Yes	It's a great place. Animals and animal habitats come first in priority. People visitation next. and development last or not at all. 'Re: q9b N/A. Re: q102a - q10r I don't understand this section. Re: q12b 'us' Re: q12c 'us' Re: q12f 'ours'
General Management Advice	Yes	Yes	Keep it natural and protected but not so much that our use of it is impaired or so that the quality of the visit is stained with "regulation" and paperwork.
General Management Advice	Yes	No	1. Leave the place alone, the only thing the government is really good at is ... things up-so stay out. 2. Hire somebody with some training to write your questionnaire. 'Re: Q12n1 'Trash Bay'; Re: Q16c 'Are you nuts?'
General Management Advice	Yes	No	I love the Arctic National Wildlife Refuge just as I love the rest of our Great State. Although I understand the need for certain restrictions, such as "no motorized vehicles off the Dalton Highway". I don't think it is necessary to over-do it. I suggest we keep it the way it is now and not impose a lot of new restrictions. Leave it accessible for all to enjoy.

Main Topic	Hunt	Guide /OF	Survey Comments
General Management Advice	No	No	The access of the refuge has been self limiting for some time. The values that many personal and professional users of the refuge have self police the refuge as effectively as law enforcement without the negative effects. I would hate to see the refuge become another area where we are policed and regulated like other areas in the state and United States. This would greatly distract from the "Wilderness Experience".
General Management Advice	Yes	No	I struggle between management/rules (regulations) for protection and the bliss and freedom of not having such regulations. I would not like the ANWR to become like the Grand Canyon-30,000 people and regulations. 'Re: q12f1 just ours
General Management Advice	Yes	No	Predator control is a bit of an issue for me for the following reason. I am just as if not more excited to see predators than their prey. One of the best reasons to go to such extremes to visit a place like ANWR is to see nature at work with little or no shaping by humans. And if that means there are natural cycles in the population numbers of predators and prey then so be it. One reason I went to the Arctic was to hunt caribou but as stated previously I was more excited to see the wolves that hunt them. 'Thank you
General Management Advice	No	Yes	Refuge management appears to be excellent given the fiscal constraints and multitude of constituencies to balance. Keep up the good work.
General Management Advice	No	Yes	Remove native allotments, or at least regulate their condition . The two we saw where in significant disrepair, with trash strewn about. Trash from the sites could be found for many miles downstream. Tighter controls on hunting, and particularly on leg traps.
General Management Advice	No	Yes	I felt that the refuge was the most wonderful experience just as it was. I loved the limited access to people. I feel that if it was developed thereby allowing too many people this would inevitably lead to the proliferation of camping sites which would completely destroy the wilderness experience. Hunting should be banned as everywhere else in Alaska seems to be a free for all slaughter houses. The tour group we went with carried out human waste and I think this should be mandatory for each group. I was very impressed with the care they took in not leaving any rubbish at any of the campsites. Why are people so obsessed with 'managing' places? It seems to me that the more people you allow into places like that the more people want to interfere. Why not keep access limited and actually allow the area to 'be'? Nature does quite a good job if only small numbers of people move in and out of the land. The greater the human impact the more the place will be ruined. The question always is can it hold out against human greed. I am glad I saw it when I did before it is inevitably ruined like everything else in this overpopulated world. I loved it.
General Management Advice	No	Yes	The best part of the refuge was the lack of evidence of human visits. Whatever is helpful in keeping it that way would be good.
General Management Advice	No	Yes	Keep "management" light and limited. Let nature do it's thing, and let visitors adapt to it. Keep oil exploration out of 1002! (Slant drill from Houston) 'My answers were colored in part by my ability to compare ANWR on this trip with dozens of other experiences in wild Alaska from 1959-2007. Re: q7a added the word vegetated to sentence. Camp on vegetated gravel bar or bare ground. Re: q9ai solitude with party of 7? Re: q12c1 Same place
General Management Advice	No	Yes	No hunting. Why call it a "wildlife refuge" if you allow animals taking refuge to be shot? No resource exploitation (i.e., No drilling for oil or gas). Limit use in high use area. E.g. rafting on the Kongakut. Preserve the sense of isolation and being in the wilderness. 'Re: q22 Unsure

Main Topic	Hunt	Guide /OF	Survey Comments
General Management Advice	No	Yes	Keep it the way it is!
General Management Advice	No	No	I would like to see the Refuge remain undeveloped, void of human imprint. I don't want to see or hear aircraft unless there is a medical emergency. I do not want to hear motorized boats. Paddle or stay off the water. Although I am aware that Natives have hunted for generations in the Refuge my thoughts would be to exempt the entire area. It truly is enough to know it is there. 'Re: q11d N/A; Re: q12a1 "too far to contact"; Re: q13a "too broad"; Re: q13v "lack of development"; Re: q14h "walk in"; Re: q16d and e "no aircraft"; The respondent sent a card along that said "Thank you for allowing participation in this important endeavor. Enclosed is the unused survey and envelope for someone else's use." He was sent out 2 surveys and returned the second one completed.
General Management Advice	No	No	In most areas, human waste should be buried properly for decomposition. 'Re: q10d1 I left the response blank because they chose both '0' and '1' as responses; Re: q12 Respondent added another category-Garbage/debris around shack and along river and reported seeing '1+', which was reported as '-2', greatly detracting from the visit.
General Management Advice	Yes	Yes	Less rules the better! Equal access for all. 'A great place to go to get away from it all. Beautiful country, great hunting can't wait to next year. The Park Rangers who came to a visit were very nice to talk with and we showed are licenses and told them what we were hunting and showed them our game. Don't let the place be commercialized, leave it as is.
General Management Advice	Yes	No	Status Quo
General Management Advice	Yes	No	As a long term visitor to the Refuge and Alaskan resident, I appreciate the ability to visit, hunt, and recreate in the Refuge with minimal evidence of, or accountability to the USFWS or other agency staff. For that matter, with minimal evidence of other people, period. That said, the primary attraction of the Refuge for me is the landscape: wild, minimally altered, with essentially natural animal populations. I'd like to see Refuge management perpetuate these timeless values with as "hands off" an approach as strict protection of the resources permits. But, the bottom line should be protection of the wilderness character of the land, and when that requires increasingly restrictive protective measures, I'd reluctantly support them. Making any part of the Refuge increasingly "visitor friendly" with trails, camp sites, increased information runs counter to my appreciation of the area as bona fide wilderness.
General Management Advice	Yes	No	Cut refuge administrative staff down to a refuge manager/pilot and an assistant manager. Having more than 2 people to manage the refuge is wasteful and degrades the sense of wilderness. The refuge should be declared a non-subsistence area. Make guiding of all kinds (hunting, floating, and backpacking) illegal. Prohibit the sale of maps of the area. 'Re: Q7c 'burned toilet paper-always'

Main Topic	Hunt	Guide /OF	Survey Comments
General Management Advice	No	Yes	Top priority should be keeping the refuge wild and pristine, both visually & functionally. Keep it trail-free. Remove old hunting caches & other imprints of man (and woman). Be careful about instituting new restrictive regulations i.e.. requiring bear canisters (fine for river trips, not for backpacking) or packing out poop or banning fires etc. Be area specific for this kind of regulation, only where resource problems from heavy human use are occurring or have such potential. Freedom is an important part of the wilderness experience and unfortunately it has been severely compromised in most of our nation's parks, refuges and wilderness areas. The ANWR still provides the opportunity to experience real freedom. It's a real pleasure to be able to make choices en route. That's important. So again, new restrictions should be site-specific, to protect resource values. Also, the refuge Administration should be more proactive in educating the public about all threats to ANWR, including climate change, degradation/overuse, and oil drilling, though I realize that the current Administration probably won't let you actively oppose drilling. In summary, you folks do an excellent job in keeping it wild. Keep it up. 'Re: q6a I am the guide/outfitter. Re: q9b N/A
General Management Advice	No	Yes	Doing a great job-keep it up. Maintain current management practices: -eco sensitivity;-self reliance;-minimal management impact upon visitors. Trusting independent, self reliant visitors to act appropriately. -Postcard or email survey participants when results are available.
General Management Advice	No	Yes	I am in awe of the wholeness and sacredness of the refuge. I was deeply moved and profoundly changed by my visit. I do not have words to describe the incredible magic of seeing wolf and grizzly tracks on the same sand bar. We must do everything we can to preserve the integrity of the refuge. Also, please start to require bear canisters-let's keep the animals from becoming habituated. Thanks! 'Re: Q12m 99 was written in, in place of Arctic Refuge. Thanks for the opportunity to comment. I'm sorry I couldn't submit this via email-my computer is old & could not support the form. Re: q7b (only on gravel) Re: q9b N/A Re: q12m Arctic Village; Re: q13w * Re: q16b Please do this!
General Management Advice	No	Yes	Please, please, please do something about all the oil barrels on the coastal plane portion of the Hulahula River. Out of all the rivers I've been on the Hulahula is perhaps the most beautiful in the mountains but turns to the trashiest through the coastal plane due to abandoned 55gal drums. I know outfitters and private groups would be happy to pick up the trash and transport it to a pick up site if there was a way for it to get picked up and disposed of. I would be happy volunteer my time to do the clean up if the transportation and disposal was provided.
General Management Advice	No	Yes	-We could drink from the streams with impunity!! -Our stream dried up (or went subterranean) why? -Whatever you are doing/limiting/creating now seems good. 'Re: q12g2!! Re: q12h2!! Re: q14g rarely; Re: q14h rarely; Re: q16 yes!! Re: q182? including guides

Main Topic	Hunt	Guide /OF	Survey Comments
General Management Advice	No	Yes	Subsistence activities should be required to adhere to leave no trace. I was appalled at the subsistence cabin site and the "safety" cabin put in place by government on Hulahula River. They were a mess and this should NOT be allowed under the guise of protected subsistence activities. Shacks should be removed; garbage should be removed. Native communities should be fined for trashing the refuge. Small planes are a necessary evil to access the refuge, however the number of flights should probably be limited and/or planes should be required to use alternative routes to put-in; take-out points so that not all planes go through the same corridors all the time. Same with commercial flights in/out of Kaktovik. Too many over the Hulahula to the exclusion of other flight paths. Rather than imposing a lot of new restrictions on areas available for use, bear canisters; human waste removal, etc., I'd rather see impact controlled by limiting group size and, as a secondary control, total groups in an area, if absolutely necessary. I strongly suspect that hunting groups and subsistence activities have more impact than river/hiking groups. These should be strictly limited as well and monitored for abuse of leave no trace principles.
General Management Advice	No	Yes	This river area (Ivashak) is not widely visited. Most people I've talked to have no idea where it is. The river is very ... in low water conditions (which we had) you have to be out of the rafts often to pull/push the rafts to water. Then Too much for the trip-keeps it interesting and more for I have been on 3 other rivers in the refuge and they are becoming too crowded-that's my opinion from several years ago of being on these rivers. However, the Canning was o.k. (no people); but the Kongakut and Hulahula are visited more often by more people. 'Re: q12a 1 couple rafting and hiking. Re: q12n2 with lichens growing on them. Re: q21 Trip in June '08
General Management Advice	No	Yes	No development by oil drilling. Keep it a natural wilderness area. Protect wildlife-keep it a refuge. A wilderness experience should be one in which you do not see man made structures-bridges, cabins and signs. This is a very special place that needs to be protected.
General Management Advice	No	No	I think everything works fine as is. We don't need a bunch of rules. I've been doing trips up there for 15 years. The worst thing you've done is change the group size. When it went from 12 to 10 it greatly affected our trips. It went from 3 boats to 2 heavier boats, which was more dangerous with that entire load in 2. More work and less time showing guests the refuge. I wish you could know how that changed our quality of trip. And then to fly in and see 2 or 3 other groups on the same day. Bogus limit amount of groups on given day not size. Twelve is what the number should be-3 guests and one guide in each boat. Two river trips a day, one commercial and one private. Toilets are the other concern. Yes or no that simple. Pilots don't want them. I was one of the first to start using them and still do and now I can't get them flown out. If you're going to put your food down, put it on something that matters. Thank you. Re: Q12l 'caribou pass drain creek'; Re: Q12m 'Kaktovik, Arey Island'.
General Management Advice	No	No	<p>While I recognize that not all of the Arctic National Wildlife Refuge is designated wilderness, my recommendations apply to both the designated and undesignated portions. To the greatest degree possible, I would encourage that you manage the non-wilderness to the high standards of wilderness.</p> <p>The utmost priority for refuge managers is to gain a comprehensive perspective on how the wildness of the refuge is changing over time and then to make informed decisions that preserve its sacred integrity.</p> <p>I work as a wilderness ranger for four wilderness areas on the Tongass National Forest in Southeast Alaska. Our wilderness areas are often proclaimed as some of the best, wildest, remotest wilderness left in the national forest system, yet in the ten years I have worked here the wildness has only diminished.</p>

It is not through any single spectacular episode that our wilderness character has been degraded, but through the cumulative effect of a thousand little changes over time. In particular, four aspects of wildness that we have lost - aspects which I heartily encourage you to defend - are: solitude, the natural soundscape, untrammelled wildlife and commercial-free zones.

Solitude should be the opportunity to revel in glorious aloneness for days on end with no idea of where the next closest human might be. This would also mean having vast swaths free of the detritus of modern man. My brother and I saw a couple of discarded oil barrels when we floated the Atigun/Sag, not to mention the Connex container near the confluence. We were much less bothered by an obvious walking stick far from any woody growth - a stick which may have been discarded by an ancient hunter of caribou. Ask people who visit the refuge to record any modern (i.e. non-archeological) debris such that it can be removed by refuge staff. Recognize solitude as a precious resource that must be protected where it still exists. Refuse hunting/guiding commercial permits (noncommercial explorations/hunts would still be allowed) in those areas and let the solitude be enjoyed by those hearty souls who earn it.

We were also impacted by the frequent occurrence of over flights - most likely modern-day caribou hunters. This impacted both our solitude and the natural soundscape. Strive to find a way to concentrate plane traffic into specific watersheds. Give priority to tourism/hunting permits that use no aircraft or the least amount necessary. Make it a goal to have most watersheds engine-noise free. If you don't already, I urge you to inventory your soundscapes and to make management decisions that preserve natural sounds. Denali National Park has experienced personnel in this field.

Recognize how hunting pressure, especially hunting via modern means (i.e. with airplanes, scopes, snow machines, etc.), is altering the behavior of the caribou. Recognize how tourism pressure is doing the same. Especially recognize how roads, developments and air traffic influence the animals. My brother and I were told that hunting from the Dalton Highway has become so popular that the Western Arctic Caribou Herd is beginning to forgo its traditional migration route through Atigun Pass and is instead splitting up and heading south through different valleys. If this is true, this would represent a trammeling of the community of life under the definition of the Wilderness Act - an unacceptable degradation of wilderness character. I would suspect that the non-wilderness Refuge designation would also have a provision supporting natural dynamics.

The last manner in which our wildernesses have suffered is through the explosion of commercial ventures. This has made it most difficult for noncommercial parties to enjoy solitude, remoteness, tranquility and an overall wilderness experience. Commercial ventures include charter boats, tour boats, cruise ships, flight seeing, kayak trips, guided goat/bear hunts, guided fishing trips and other excursions. The default mentality at the Forest Service is to accommodate all requests for commercial permits. The Wilderness Act strives to limit commercial exploits, stating "Except as specifically provided for in this Act, ... there shall be no commercial enterprise..." (Section 4(c)) and then relenting a bit stating that "Commercial services may be performed ... to the extent necessary for activities which are proper for realizing the recreational or other wilderness purposes of the areas." (Section 4(d)(6)) The spirit of the law is to allow tempered use that does not erode the wilderness character of a place. Accordingly, I recommend that within your designated wilderness you establish substantial swaths of commercial-free activity and that you exercise moderation outside wilderness.

Perhaps the most important exercise for the Refuge management is to synthesize the various aspects of wilderness character into a single perspective: is the Refuge losing its wildness or remaining wild? My recommendation is to create a single map with many overlapping layers. One layer could show where the natural soundscape is regularly disturbed. Another layer could map all of the commercial ventures for a year. A third would show where wildlife has been displaced. A fourth would

illustrate all artificial constructs built/placed within the Refuge. And so on. This map would display what wildness remains and where it still exists. How the map changes from year to year or decade to decade would capture the trend of wilding or developing that is occurring.

The next-most important task is to empower refuge employees to serve as effective stewards. Too often federal employees are demasculinized to the point of being little more than rubber stamps with salaries. Let them know that it is acceptable and even essential to stand against majority opinion when doing so best serves the refuge. Of course it is worthwhile to build consensus whenever possible, but the fundamental concern must be safeguarding the refuge versus winning popularity contests.

Effective training for this would include exercises examining real life issues and how to resolve them. Issues might include: creating commercial-free zones/curtailing established guide operations; partnering with the FAA to create no-fly zones in order to preserve the natural soundscape and so on.

Two particularly challenging aspects of upholding high standards are having to stand up to your own agency and having to draw a line with researchers. Our own agency has sought to build shelters near communication sites, to allow unchecked commercial expansion, to place thousands of monuments for research - all within wilderness. This has created internal friction and tested the resolve of our wilderness managers.

Researchers driven by data have presented their own unique challenge regarding wildlife. They want to capture animals, draw blood samples, tag them, take skin/DNA samples and install radio transmitters. This conflicts severely with the definition of wilderness as "an area where the earth and its community of life are untrammeled by man" (Section 2(c) of the Wilderness Act). It is important to learn more about wildlife, but wilderness is where passive measures must be employed such that the animals are unaware they are being studied. Again, standing up to researchers has created no small amount of friction.

I urge that you train Refuge managers to build fortitude around keeping your place as wild as you can. Establish a legacy such that the new managers learn from the old managers how the Refuge is changing. Directly confront the unwilding forces and strive to negate or contain them. In short, empower your people.

"We must not only protect the wilderness from commercial exploitation. We must also see that we do not ourselves destroy its wilderness character in our own management programs. We must remember always that the essential quality of the wilderness is its wildness. "

~ Howard Zahniser, chief architect of the Wilderness Act of 1964

My hope is to go to graduate school in about two years and to develop a means for mapping wilderness character for a place over time. If anyone at the Arctic National Wildlife Refuge is interested, I'd be enthusiastic about working with you to determine wildness trends in your area.

General Management Advice	No	No	The untouched wilderness should be left untouched. The beauty of the ANWR is its pristine state. Hunters' camps detracted from the experience. The silence and solitude were unlike anything I have experience in 40 years of outdoor backpacking. The sense of vastness (with NO evidence of human activity) was incredible. The few evidences of hunters' camps did detract from this feeling. I feel that small self-sufficient groups are the best way to preserve and experience this wondrous place. 'Re: q6a Sierra Club trip; Re: q9b Line drawn through it. Re: q13a Circled the word 'recreation' and placed a question mark next to it.,
General Management Advice	No	No	The opportunity to visit a place where one can not see any sign of previous human visitors is unique and should be protected.

Main Topic	Hunt	Guide /OF	Survey Comments
General Management Advice	No	No	The co-modification of wilderness and wildlife is almost universal in the United States today. We need land that is set aside, held in sacred trust for those seeking a different experience. Yes, some people will be at risk in a Yes wilderness, but the benefits of self-reliance and personal growth are worth the risk. This is our last opportunity to preserve intact wilderness. If we turn it over to commerce or Disney-fie the experience, we will lose a priceless opportunity. Thank you for protecting our heritage and keeping it wild. 'Re: q10l1 It is why we came. Re: q11a, d & e N/A Re: q11e No other groups. We chose to be low tech, low impact. Re: q12n Sheep hunting camp seen-not in use at that time. Re: q14f Depends on control. Re: q16a-c Would only be an issue in population dense areas-not where we were. Re: q16k Depends on number of people using area. Re: q16q comes down to numbers; Re: q16r comes down to numbers Re: q16v comes down to numbers Re: q18 I am not in favor of regulation unless there are problems. Re: q18c More than 6 is a crowd that diminishes wilderness experience.
General Management Advice	No	No	Please keep it the way it is, thank you !
General Management Advice	No	No	Keep the philosophy of discovery and self-reliance. Motor-free, structure-free as much as possible. Purchase Native inholdings to protect the refuge.
General Management Advice	No	No	Limit hunting of large species. Avoid construction of cabins, bridges, formal campsites, etc. Try to maintain ANWR as wild and natural as possible for future generation to enjoy. 'Re: q1 answer '1' then '6'. I recorded '1'. Re: q1b N/A; Re: q12b1 Wrote '1 tent, 0 people'. I recorded '1'. Re: q13bb?
General Management Advice	No	No	'Please avoid all things that lessen the true wilderness experience. Please educate all visitors to leave no trace. (While we had a couple of camp fires to burn toilet paper they were very limited an all evidence was TOTALLY removed before we left the site). Installing trails/sighs/developed camp sites/port-a-potties/bridges/cabins etc would be absolutely wrong. Predator control would also be altering the natural state which I strongly oppose. On my second visit we encountered multiple hunters' camps where fire-rings (containing foil and sauce bottles from MREs) and trash/etc had been left in great quantities. As hunters seem to visit the refuge mainly for reasons other than enjoyment of the un-spoiled nature and wilderness perhaps their camp sites could be more closely monitored so as to avoid the trashing of the ANWR. The 'Hide' that 'Subsistence Users" have erected/installed on the upper Hulahula drainage should be removed. A protected wilderness should have no permanent structures. Especially one as unsightly as that. 'Dear ... I am attaching my response to your survey. I am afraid I used my macs 'preview' program to fill out your form and could (for some reason) not enter my 5 digit identification number. It would also not allow me to save my work so I cannot save and re-open in Adobe reader and ad the number. I hope you can manage to ad it at your end.
General Management Advice	No	No	I dread the thought of this area being exploited for a quick energy fix or through tourism. I like the idea of anyone being able to experience what I did, but it has to be managed.
Communication	Yes	No	Publish up to date river flows.

Main Topic	Hunt	Guide /OF	Survey Comments
Communication	Yes	No	Don't overdue the place, but have a few more interpretive stops/w displays on the Dalton. Highlight the different studies w/ displays and explanation-do a better job of educating visitors when they are directly looking at something besides just a visitor center. Tell the stories-musk ox, the breaks, how fragile the tundra is, effects of global warming on the tundra, etc
Communication	No	Yes	Limit Group size. Provide best practices brochure to guides for them to follow and also post this on web & bulletin boards (e.g. Arctic Village) so clients of guides know if guides are guiding in concert with Refuge policy. For example, I loved camping on tundra, but based on this survey, I would reconsider camping there now. Track flights over refuge via bush pilots. 'I loved being in Arctic NW Refuge-the wide open spaces, landscape vistas, unchanged-by-humans landscapes, and exploration and discovery. Because of logistics and bear country aspects, I would not likely take a trip alone to this place, so I feel I missed what would truly be wonderful-the self-reliance, solitude, immersion-in-wild, learn about nature-and-self aspects of the refuge travel or experience. This dichotomy is not limited to Arctic Refuge, but I particularly felt it there because the group was always talking, some members were always talking/yelling/singing, and our group guides didn't emphasize some time for reflection or solitude (even though they listed in their brochure that they hoped to connect people to wilderness)-we were always "busy" putting up tents, eating, birding, and the time I found for wilderness and solitude was when all but me had gone to bed. On the guided trip I went on, we did not receive bear safety orientation until some had already hiked away from the group; I didn't think our group was as meticulous about camp cleanliness (food scraps, crumbs on ground, etc) as we should have been for bear safety-but guides didn't seem to think so. Re: q10d I wanted solitude but fellow travelers talked too much, so lack of solitude detracted from trip. Re: q10h Again, I sought immersion but group sizes detracted from ability to sit, study, and absorb nature for any considerable length of time. Lack of immersion detracted from trip. Re: q10m1 I knew a lot already. Re: q10m2 that I didn't learn more; Re: q10p If Geologic q10p1 is a "2" and q10p2 is a "1"; If human q10p1 is a "0" and q10p2 is a "0". Re: q10q1 Guide did most things but I would have liked to have done more. Re: q10q2 As I experienced it "1"; if I had had a chance to be self-reliant it would be a "2". Re: q11a Planes overhead "-1"; none encountered on water "0". Re: q11d I learned on last day that guide did have a satellite phone when they said we wouldn't have access to one. Re: q11e planes overhead. Re: q12a 3 planes overhead is a "-1" and zero on water is a "0". Re: q12d 3 planes with other groups overhead. Re: q12e (ours) Re: q12f (our access and departure); Re: q12g other than ours Re: q12n other than k and l? 2 runway son tundra. Re: q13d negative 25. Re: q16a prohibit? Re: q16f or guided groups. Re: q16k when available? Re: q27b 12 dogs.
Communication	No	Yes	More widely publicize the uniqueness of the refuge. The press calls it "mosquito infested" but the public doesn't know how critical mosquitoes are to the refuge. 'Re: q9b N/A
Communication	No	No	More available information on river trips and backpacking trips. We saw several groups that were not adequately prepared (equipment and skills) since they could not find much information about their trip area (especially for people coming here from outside Alaska). 'Re: q9ac no info available Re: q9b N/A q12h1 same one that patrols the pipeline Re: q13f if not to exclusion of others Re: q16b only if having a site specific problem Re: q16c The word 'concern' underlined and a question mark put next to it. How about vault toilets at popular access points? Re: q16f only if needed; Re: q16o and/or routes without construction; Re: q18 only if there are documented resource impacts; not refuge wide and not unless there are sufficient staff to implement.

Main Topic	Hunt	Guide /OF	Survey Comments
Communication	No	No	<p>I believe that in order for places such as the Arctic Refuge to continue as a desirable wilderness area there needs to be public understanding of its value. Profit earning companies can spend money to tell us how this are might be good for resource extraction, but generally the other side of this discussion has less financial support. Wilderness areas are incredibly important for many reasons, and they are a non-renewable resource in many ways. AND their value is increasing quickly as there becomes fewer and fewer of them. I support anything that the refuge management can do to educate on the value and importance of wilderness to our country. One way of doing this is to make it easy and appealing for videographers and photographers to do their part in showing the public who may never visit the arctic what a beautiful and unique place it is. This is happening, and I hope to see it grow.</p> <p>Thank you That's a long survey.</p>
Communication	Yes	No	<p>Let's try and educate people to understand their rolls in taking care of such a beautiful place. We should all be aware that its "our" great country and we can make it or break it. I am glad to participate. We work hard every year to accomplish our goals. We hike in 30 mile up drainages from were we land and hang pack raft off a cliff. Then we traverse the continental Divide for a few weeks. Sheep are a bonus to us. Exploring the country and game conservation come first. Always..... Thanks for being proactive people.</p>
Communication	No	Yes	<p>Manage the wilderness portions as wilderness. Manage the refuge portions as a refuge. Low impact-no trails, bridges, cabins. Increase agency preserve within urban areas to inform & educate the masses about what a rich treasure the Refuge is. I live in Fairbanks & don't know where the Refuge office is. 'Re: q9a NO HUNT Manage the wilderness. Your survey was repetitious and therefore irritating. You should not have asked for personal information at the end.</p>
Communication	No	Yes	<p>Don't let drilling take place! Study and publish how global warming is having an effect on the refuge. 'Re: q22 probably</p>
Communication	No	Yes	<p>This was my second trip to the refuge in two years, because the first was so moving and because one visit just wasn't enough. Our guides made all the difference to our trips, so I think encouraging a professional, competent, and knowledgeable cadre of guides for the refuge is really important. Training and communicating with guides is more important than all the other rules you could put in place to protect the refuge from human impact. They should be respected partners in preserving the wilderness.</p> <p>I really would hate to see actions that take away from the feeling (nay, reality) of wilderness that one has in the refuge.</p> <p>Thanks</p>
Communication	No	No	<p>Provide education for hunters. Require proper disposal of human waste. The refuge and surrounding areas are amazing. Our 11 day trip only passed through the refuge on 3 days.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Communication	No	No	<p>A. Information board at Arctic Village should have more on the Gwich'in history, culture and especially how they used the refuge areas. Caribou fences, how/where people camped-lived. B. (1) In general, more education, minimum rules. (2) Focus restrictions on commercial operations, esp. on rivers, and group size. 'Re: Q12f1 'many at input'; Re: Q12g1 '?' after '15' and wrote in many on upper river; Re: Q12j1 'on gravel'; Re: Q12l1 'at put-in'; Re: Q12n1 'slight'; Re: Q13bb 'what?'; Re: Q16b Respondent circled both 'strongly oppose' and 'strongly support' and wrote in 'river guides only' and drew a line to the words 'strongly support'; Re: Q16c 'yes for commercial river trips only-yes on busy river; Re: Q16k 'Do advise people of importance'; Re: Q16r 'No, but unpumped outhouses should be considered if appropriate; Re: Q16v 'Yes, for commercial operations only'.</p>
Communication	No	No	<p>I have taken several classes to the Arctic Refuge. On three occasions, '03, '04, and '05, I took my Anthropology students to the Coastal Plain of the Refuge. We stayed on a gravel bar along the Canning River (actually just across from the Refuge that time), and in Sunset Pass in '04 and '05. The only bear encounter of any importance was seeing a grizzly at about 150 yards in '03. He saw us and ran away. The other 2 years we didn't see bears. In '04, we had beautiful weather for the four day visit. In '05, the weather turned foul on the fourth day, and we were forced to wait on the airplane pick-up for three more days than we had planned. It (in early August) was below freezing and foggy in Sunset Pass. Not a great experience at the time, although we rationalized it pretty well on return. In '06 I took a class to Arctic Village, and we entered the southern reaches of the Refuge near town. I was gun-shy from the stranded experience in '05.</p> <p>In '08, we tried to go to Sunset Pass (early August again) and ... (our bush pilot 3 of the 4 years) said the weather was too bad. So we went to a site on the South Slope and camped for four days.</p> <p>My class trips also include a heavy dose of Native villages such as Arctic Village, Anaktuvuk Pass, and Old Crow (Yukon), to allow the students to learn about the culture of the native people who depend on the Refuge in one way or another. 'Let me know if I can help you further. I obviously have a strong interest in the Arctic Refuge, especially the Coastal Plain, and especially in the Gwich'in and Inupiat people.</p>
Communication	No	No	<p>Encourage ... practices through education or especially demonstrated by guide outfits (perhaps require of them) before jumping to many new regulation that may be difficult to get compliance on. Be inclusive of natives to both the North and South of the Brooks Range ... management, especially as it affects subsistence. 'I apologize for the delay. I had difficulties with the electronic survey given a spotty internet connection. Re: q12e1 'N/A'; Re: q12f1 'just ours'.</p>
Limit Use	No	Yes	<p>I would encourage the refuge to limit infrastructure support for visitors. Limit numbers to levels that can be monitored to minimize adverse impacts and appropriate use by existing staff. Encourage and facilitate increased research activities to within make an effort to understand and better appreciate natural forces at work within the refuge. 'Re: q18 '3 boats'</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Limit Use	No	No	<ul style="list-style-type: none"> * Don't let them drill for oil. * Don't turn it into a destination with facilities and rules. * Don't make it easier for people to go there. Leave it alone so independent travelers have to figure out how to do it and be self reliant. * Apply rules to commercial trips as a priority -- e.g. hauling our human waste on float trips, etc. * Do limit number of parties on heavily used corridors -- like Kongakut -- focus restrictions on guided commercial trips. * It sure seemed like there were lots and lots of sheep hunters -- planes flying up and down the Marsh Fork many times most days. Very distracting to the wilderness character. Fewer planes would be better. 'Engage Arctic Village tribal office in setting up information about the Gwich'in at the air strip. There was good info on wildlife but nothing much about the history of the Gwich'in people.
Limit Use	No	No	Implement necessary limitations to maintain true wilderness environment with limited human impacts, with access for compatible uses that are not too destructive.
Limit Use	No	Yes	Keep it wild. Don't provide services to make it easy for people, make people be wise and self-reliant. This should not be an easy place to visit, but one that is wild and remote and as unaltered as possible. Use restrictions when necessary to maintain the integrity and beauty and wildness. Limit use if an area is being negatively impacted due to high popularity. 'Keeping the Arctic National Wildlife Refuge undeveloped and wild is our responsibility to assure that this place exists for generations to come. The oil that could be gained from drilling there is not worth the loss of this spectacular place.
Limit Use	No	Yes	<p>My visit to the Refuge was awe inspiring due to its scale, wilderness, and lack of humanity and human influence.</p> <p>I am in favor of management which limits its use, but gives those who want to visit a fair chance at the opportunity. I see it as critical that access is limited and that impact by those visiting is minimized by strict rules.</p> <p>I believe that the Refuge is valuable to those who will learn of it but never visit. To those it is vision-enabling/dream-enabling in a way that would be lost if it were trampled and spoiled. I think it would help defend the Refuge from over-use or damaging use to articulate this value</p> <p>Drilling for oil is an unthinkable poor use for this land.</p>
Limit Use	No	Yes	Continue to limit access of organized trips. Require visitors to register and try to limit visitors traveling in at the same time.
Limit Use	No	No	<p>Limit the human impact on the refuge.</p> <p>Control the number of people who visit, and the means of travel there.</p> <p>Maintain it as our last true wilderness area.</p> <p>Emphasize its role as a protected place for wildlife - a refuge.</p> <p>Prevent oil drilling 'Visiting the refuge was an important and life changing experience. I have been an advocate of wilderness and appreciate the efforts of those who work for its preservation.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Limit Use	No	No	The most important aspect for me when visiting the refuge was the minimal evidence of human presence there. We were fortunate to only meet a few other parties, and this occurred near the entry and exit points. If crowding becomes a problem I would support limiting or spreading out parties to maintain isolation and minimize impact on any one place. Reasonable access is important, and the few landing strips on gravel bars which we ran across did not detract from our visit. The one thing that did greatly detract was running across two separate garbage piles left by previous hunting parties (as evidenced by bullet casings.) In these cases the groups had flown in and camped near the landing sites, and simply left their garbage behind. We also ran across a few campfire sites, where the hikers had burned garbage but did not remove the remains of foil packages. This was annoying, but not as disturbing as large garbage sites. I think that educating visitors about burning garbage would help. There was no point where I felt that trails or direction signs would have helped. We did have a challenging river crossing near the end of the trip, but that contributed to the adventure, which is an important aspect to maintain.
Limit Use - people	No	Yes	Limit number of people accessing any given area in a 24 hour period to preserve both the environment and the sense of wilderness.
Limit Use - people	No	Yes	I think that the degree of solitude one can achieve in ANWR sets it apart from most of the other parks, national forests, etc. that I have visited. It's what I value most about ANWR. I think management should monitor the itineraries of groups, and if meetings between groups become frequent and detract from visitors' experiences, the management should act to steer groups to different areas (through permitting). It's a huge wilderness, but I get the sense that groups favor a very small part of the refuge.
Limit Use - people	No	Yes	Prefer less visitor use, rather than extreme management, such as carrying out human waste. Manage to support wilderness, and keep visitor numbers low, rather than degrade the resource.
Limit Use - people	No	No	Step in before impacts get too bad. Monitor use and if it is drastically increasing, then take action. The Kongakut is busier at the put-in than I expected. But, we spread out on the river fairly well. I have an Apple and the pdf doesn't seem to work. I can't fill the boxes in. Any suggestions?
Limit Use - people	No	Yes	Keep the people flow down. Make them take out their waste. Keep the hunters out 'I don't believe you should stop people all together because people start to care about things when the experience it. But I do think that the numbers should be kept down and people should be forced to take their waste out. I was on ... and they were just terrific. The guides ... and ... took our waste out and it showed how easily it could be done. I think that little bit more of an effort is worth saving the environment. Hunters should not be allowed up there. it is a disgusting blood thirsty thing to do. It is obviously such a fragile environment and one of our last true wildernesses. It should be cared for not just for the future generations but for life ALL over this world. I did indeed fill out a survey and email it back to you. It did not have the survey number of...on it as I dumped the survey and deleted the mail before I realized it had that needed number. I explained that at the bottom of the survey I sent in. I do not want to fill out another, so you'll have to find that one or do with out my response. Thank you.
Limit Use - people	No	Yes	I think that whatever you are doing, you're doing it right. The refuge was pristine and magnificent. Keeping group size to small numbers will help reduce impact, as well as educating them on proper behavior in the wild. 'Re: Q7c 'we packed it out'; Re: Q9b n/a

Main Topic	Hunt	Guide /OF	Survey Comments
Limit Use - people	No	Yes	Too many people on the Kongakut at the same time.
Limit Use - people	No	Yes	I think restricting the size of educational, non profit groups should be considered. Use should be restricted in some of the most pristine areas.
			keep the drillers out. We need a few pristine areas left in the world. The refuge was even more wonderful than I had imagined!
Limit Use - people	No	Yes	Keep it like it is. Limit group sizes. Spread groups out. Protect resources. Limit or reduce number of fish you can keep (2/day or less). Thanks, I had a wonderful time and plan to return. No drilling. 'Re: q16c Underlined the word concern.
Limit Use - people	No	Yes	My trip to the refuge was the best trip I ever made. I did a lot of reading before I went but still was not prepared for how wonderful and amazing the refuge is. I hope there is not hunting in the refuge except by native people. There should be annual limits on the various drainages for the number of people who visit based on studies of what each drainage can handle. I do not feel the refuge is a place for mass visitation. 'Re: q27b + 1 Labrador retriever
Limit Use - people	No	No	No drilling (of course). Limit number of parties to one per area at a time. Don't accommodate those who refuse to leave civilization to be in the wild (those who need a cabin, a toilet, a shower for example). Open area to people who might help to protect it once they see it but still keep it as wild as possible-otherwise it will get just like everywhere else.
Limit Use - people	No	No	Move to a lottery permit system for popular areas. Encourage use of less used areas if crowding continues. Encourage "Leave no Trace".
Limit Use - people	No	No	Don't allow guiding services; if people are lacking experience, they don't belong there. Keep groups small to preserve pristine nature.
Limit Use - people	No	No	Refuge has each year it was hard to determine some answers. Generally speaking I'm for less oversight as opposed to more; however that must be balanced with the absolute need to keep the Refuge pristine, unpolluted, silent and remote. If a problem is arising due to too many visitors then management must: 1) Monitor: groups, high use access and departure points, river bars, and commercial operators and act decisively when and where a potential problem arises. 2) Cease all hunting, trapping and fishing within the boundaries of the Refuge. 3) Allow visitors to be responsible for themselves, their experiences and their lives. 4) Consider intermittent closing of the Refuge on a regular basis if too much visitation starts to impact the animals, peace, environment (water, gravel bars, trees, appearance, etc). 5) And remember, a closed Refuge should mean the management keeps out, too. I trod lightly. Many don't. But if I had reason to believe that my presence in the Refuge did any permanent damage to the environment I would willingly support the closing of it to the public. It is very important that we as a nation retain one last corner of true, unblemished wilderness as a legacy for our children and theirs. Whether or not I can visit it I believe it is very important for it to exist. 'Re: q1 2 answers were given. I recorded 1. 7 was also chosen and "hike in from home" was written in. Re: q9b Not hunting. Re: q11a, c-e N/A Saw no other groups. Re: q12n old sheep hunt camps; Re: q16k depends on amount of usage, 3 people; Re: q16q if necessary; Re: q16r if needed-but must be well maintained. Re: q16u high use area only. Re: q16v if necessary. Re: q17 oversight-no favorites. Re: q18a 2 craft Re: q25 3 A.A. degrees

Main Topic	Hunt	Guide /OF	Survey Comments
Limit Use - access	No	Yes	<p>Do not develop it to support motorized access of any kind, especially RV access from the haul road. Keep energy development interests out of all parts of the refuge, permanently.</p> <p>If it would not conflict with indigenous people's traditional hunting and other subsistence rights, I strongly support inclusion of the entire refuge within the federal wilderness or national park systems.</p>
Limit Use - access	Yes	No	Encourage visitors to leave no trace of their visit to the refuge and limit the use of motorized access. Some parts of the refuge should be limited to walk-in only.
Limit Use - access	No	No	Limit public access. Advertise risk, danger of travel in the refuge and the experience needed. Limit access to threatened or sensitive areas. Increase cost (charge for permits?) & use money/income to fight oil exploitation. As an environmental biologist, I support wildlife surveys but do not support scientific studies (e.g., of climate change) in ANWR. Scientists make as much of a mess as everyone else and studies of climate change are abundant elsewhere in Alaska and the Brooks Range. After 4 visits (1/year, last 4 years) I would pay more for the privilege of hiking in ANWR and to protect it from oil exploitation. 'Re: q9b Not hunting
Limit Use - access	No	No	Slow down the marketing and awareness of wilderness areas. Reduce the impacts Natives have on Refuge lands through tighter enforcement of refuse deposits and trailing from motorized vessels and sloppy land use. This occurs (from my vast experience) within a 20-mile boundary from every remote village in existence today in Alaska. Without enforcement, natives do not show respect of the land for others to accept. Leave nature alone for the most part, just let it be free from human recourse when possible.
Limit Use - aircraft	Yes	No	Avoid getting too restrictive. I think the remoteness and costs associated will keep usage down naturally. Avoid making use of planes too restrictive. If you force a 1 landing strip per river scenario everything becomes too congestive. Possibly limit no or timing of large groups via the main air taxi operations. Watch transporters that flood hunters into small areas with no limits.
Limit Use - aircraft	Yes	No	Restrict helicopters to Emergency (Medevac) uses (SAR?) and very high priority research. 'Re: q21 Respondent wrote 'maybe' next to the qty 1, in reference to how many trips that they are taking to the ANWR this year. The quantity '1' was recorded. I remember having sent this once, electronically. I'll re-do it and send it by snail mail. My # is 63009. The Adobe form is misbehaving so I'll hand "crank" you a version
Limit Use - aircraft	No	Yes	Limit fixed wing access points. Prohibit helicopter low over-flights and landings like typical U.S. wilderness. Follow more closely 1964 Wilderness Act with regard to human activities and impacts. 'Please sort out and publicize any fees and restrictions that the local native groups may want to impose on the National AWR. For example airplane landings on Arey Island etc. Also limit snow machine travel (if necessary in ANWR) to snow or ice covered surfaces so as not to mar landscapes with tracks.
Limit Use - aircraft	No	Yes	My biggest problem with the refuge was the number of flights by small planes. We encountered a lot every day. However, we were close to the road, and I know that is the way most people access the park. I imagine that not much can be done about that, but it still was annoying. We had a terrific experience, and I look forward to visiting it again in the future. It is truly amazing. Please vote against Palin's "drill baby drill." 'Obama 2008. Not sure if you got this from my submit click, so here you go just in case.

Main Topic	Hunt	Guide /OF	Survey Comments
Limit Use - aircraft	No	No	The Arctic is an amazing place but some of the river corridors, especially the Kongakut, are getting hammered by heavy use. In addition, the airplane traffic is increasing and detracting from the wilderness experience. 'Re: q16e It's too late- there's scarring all over.
Limit Use - aircraft	Yes	No	You already control animal numbers. Less planes flying-limit times. Planes bother animals. Keep up the good work!
Limit Use - aircraft	No	Yes	<p>I wish we could restrict over flights of trans-arctic aircraft. Hearing them kind of sucked.</p> <p>I can tell you that after 43 years of hiking and climbing all over the West, that ANWR blew me away like no other place ever has. This was my fourth trip to Alaska and somehow ANWR feels like another world entirely. We spent a day camping at the confluence of Pagilak Creek (sp?) and the Kongakut. It is the most beautiful place I have ever seen.</p> <p>When I returned home I was at a loss to describe the Refuge in words. I still am. The descriptions that come out of my mouth don't do it justice.</p> <p>There is something about the complete naturalness of the refuge that makes it special; this is the way that nature operates without interference.</p> <p>For what it is worth, when the lease for my car is over next May, I plan to get rid of it and do without a car. I realized that if I wanted to preserve the sanctity of the Refuge that I needed to put my money where my mouth is and not contribute to the need for oil.</p> <p>'Attached please find my completed survey. Sorry for the delay. I got all teary-eyed writing about my trip. ANWR is an amazing place.</p>
Limit Use - aircraft	No	No	NO DRILLING- ELIMINATE AIRCRAFT TOURING OR HUNTING - AIRCRAFT SHOULD ONLY BE PERMITTED FOR DROP-OFF/PICK-UP ACCESS AND EMERGENCIE-S NO DEVELOPMENT OF ANY KIND
Limit Use - aircraft	No	No	Limit helicopter on refuge. No drilling or roads into refuge. There should be limitations of commercial operators so not to indulge the refuge with people. 'Re: q1 In June just N. of Anatovik pass. (2nd visit in July he flew in by private plane). Re: q6c Spent 3 days in/around Kaktovik. Re: q7c I burned it. Re: q9b Did not hunt. Re: q11d Circled GPS and wrote did not need to use. Re: q12c1 It was a village. Re: q12n Not from this trip. Re: q13 a Without vehicle ATV's etc. Re: q13g I will visit again. Re: q15g I've been to some great places. I.e. '????????', etc. Re: q27a Does not apply. I'd go if I had no money. Re: q27b Does not apply.
Limit Use - aircraft	No	No	Limit commercial air taxi land locations. 'The Arctic Refuge is the greatest wilderness in the world. Keep it that way. Less management is better than more. Make access more difficult, not less. Provide less information, not more. Thanks for the opportunity to comment.
Hunting Management	Yes	Yes	Work on controlling wolf pack population that threatens the sheep and caribou herds. More trapping permits in the Refuge or wolf hunting from the air. Make it easier for a hunter with open hunting tags to move to a new unit (area) or different outfitter area if there is no game in the 1st area hunting in.

Main Topic	Hunt	Guide /OF	Survey Comments
Hunting Management	Yes	No	<p>Your bear population seems too high.</p> <p>We saw evidence of bear most everywhere. Had direct encounters with them 3 different times while out in the field.</p> <p>Plus found a ram kill and he was 5 years old-should have been in his prime. Looks like he'd been dead for ~ 4 months. No evidence that he was killed in an avalanche. While he may have died from illness you also can't r/o that a bear got him. Also saw lots of moose antler sheds but no moose. Perhaps the bears are increasing the number of moose kills.</p> <p>That being said you all should consider increasing the bear hunting limit since very few people hunt them there anyway.</p> <p>By the way as you can see in my above survey I'm against forcing people to use bear containers for all food and odorous items. We used a container for our most odorous foods and did fine unlike the unfortunate woman that got attacked several days after we left to the West of us. Personally I believe if that group involved in the recent bear attack had perhaps had some food outside the containers that the bear was able to get to then the bear would have likely focused on it rather than getting aggravated by the bear containers then attacking the lady in the nearby tent.</p> <p>Another major reason I'm against bear containers for ALL food and odorous items is that had we been forced to put all our food/odorous items in containers we would have been forced to hire a second charter just to fit all our stuff in the plane. Let me tell you that at ~\$6000 per RT plane trip (so ~\$12,000 for 2 trips just to carry mandatory bulky and heavy bear containers) that's NOT going to happen. So if you force bear containers for all food/odorous items then average income people like us won't be able to ever visit again-wouldn't be able to afford it. Then only the truly wealthy will be able to afford to visit this place and that would be major discrimination.</p> <p>It's a beautiful area and we enjoyed ourselves there very much. Hope to return again. If not on that river one of the nearby rivers.</p> <p>Thank you... 'P. S. I do support drilling in ANWR as I know and understand where the drilling would be closer to the sea....which isn't in the heart of the mountains next to the rivers like where those groups against the drilling imply by their photographs. Plus I work on the North Slope and have a better understanding of the oil industry unlike many of those who oppose the drilling. Like anything it would need to be done responsibly.</p> <p>Thank you</p>
Hunting Management	No	Yes	<p>Stop hunting-we saw almost no animals or birds-one frightened Dall sheep. Love drinking right from river and few in trails in sky-vastness. The 8 musk oxen we saw were magnificent. One had a tag in his ear and we found out it was part of reestablishing her-unfortunately too much inbreeding is killing them out, not wolves. Protect from human damage especially as our population increases. Parts of Alaska and Arctic are what are left of wilderness. 'Re: q9aa research books; Re q9b not hunting. Re: q10b1 'hikes', 'on a river or raft'; Re: q10c, d, g and h 'group rather large'. Re: q11d 'Not used-only guides'; Re: q12c 'Wet incredible female running "airport" at end of our trip'; Re: q12f 'other than our flights in'; Re: q13a not hunting; Re: q13c only to see it; Re: q13j Not interfere with animals; Re: q14f regulated-not disturb wildlife; Re: q15h I don't want to disturb this land. Re: q16u '? - not for hunting?'</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Hunting Management	No	Yes	<p>I would like to see hunting severely restricted in the refuge. I was so disappointed with the lack of animals viewed; the fact the musk ox population is practically non-existent anymore.</p> <p>I also think that global warming has impacted the Arctic area and think more needs to be done to expose this situation.</p> <p>Hunting camps have been detrimental in my opinion, changing the migratory patterns, and mostly busy during the migratory patterns, which isn't "hunting" in my opinion but rather slaughter of animals. No one needs to obtain a "trophy" kill! What an abuse of animals.</p>
Hunting Management	No	Yes	<p>There were a couple of things about ANWR that surprised me in a negative way: 1) I had no idea that a 'wildlife refuge' would be a place where hunting is allowed. I'm not anti-hunting, but it seems like a misnomer to call something a 'refuge' when hunting is fair game (pun intended). 2) The first few days of our trip, I heard and saw a lot of planes (presumably bringing in hunters). This definitely detracted from the feeling of 'getting away from it all'. That being said, I loved the ANWR and am strongly opposed to drilling there. Although politicians often claim that doing so can be done in an 'environmentally friendly way,' I just don't see it. We are kidding ourselves if we argue that building a road or pipeline through the ANWR would not have long term consequences.</p>
Hunting Management	Yes	No	<p>1. Drilling for oil should not be allowed. 2. Big game guides should not be allowed to operate in ANWR. 3. Bear hunting should open on August 1st.</p>
Hunting Management	Yes	No	<p>I've been hunting on the Hulahula, Jago, Canning, Aichilik, and Konakut Rivers since 1978 with my parents and now as an adult. I am disgusted with what the Natives from Kaktovik get away with in regards to garbage left behind and numbers and means in which animals are harvested. For example on the Hulahula the Natives came from Kaktovik during the Winter with snow machines and literally slaughter the sheep with motorized vehicles used as conveyance while drinking water from the river and or springs running into it at the lower elevations. We have found the remains of sled drawn home-made trailers, 55 gallon drums, propane tanks, and numerous 223 brass (hundreds) in and or around the skeletal remains of sheep with the skull and or hind or rear quarter missing. The evidence that I can see makes me come to the conclusion that they are only after trophy heads and a leg or two. Sickening!!! What gives? I'd end up in a federal prison if I did this. Even if I could legally conduct my hunting (used loosely) I would never do so. Look into this and if you get a chance fly from Grasser's strip on the Hulahula north to Kaktovik and see what I'm talking about.</p>
Hunting Management	Yes	No	<p>I dislike the subsistence hunting inside the refuge, especially the snow machine sheep hunt. Hunting sheep via snow machine when the ewes are pregnant is bad science. I used to find trash left behind by Kaktovik hunters when I hunted the North side. I have packed out the trash on numerous trips. I know it was snow machine hunters, because no backpackers would ever carry that much stuff on their backs. The state of Alaska now has a registration hunt out of Kaktovik in the Spring for all residents. The hunting of sheep should never be allowed on motorized vehicles, especially with deep snow.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Hunting Management	No	Yes	<p>Based on my experiences in the Refuge, I would like the character of the Refuge to remain as unchanged as possible. Any construction of structures/features such as port-o-potties, cabins, bridges, trails etc. would ruin the remote wilderness that I have had the pleasure to explore in the past.</p> <p>I feel strongly that permitting sport/trophy hunting in the Refuge is problematic in terms of preserving the natural state of the environment, and changing the purpose of the Refuge. I do not agree with it being viewed as a hunting reserve by individuals who fly in and out only to kill game animals, and would request that Refuge Management limit this type of activity as much as possible. 'Attached please find my Arctic Refuge Survey. Thank you for considering my opinions.</p>
Hunting Management	No	Yes	<p>I am presently satisfied with the experiences that I have had in the past few years. The pilots that I have flown me in are great men with respect for the refuge. Fortunately, only a few lucky people are able to visit each year which keeps down any congestion. Personally, I do not think that the average person would really appreciate what is up there, actually there is nothing, that's the beauty of it. Just days and days and miles and miles of constant never ending beauty. I would sure limit the number of large animals that can be hunted. There were some magnificent bears that were seen on this trip. Not sure why they should end up on a mantle some where. Send them hunters over to Iraq. It's obvious that I do not see the whole picture of land use within the Arctic, but I think the lands should be kept as they were in the past, free of any more development. As we have seen within corporate America, they are filled with greedy, unethical people who would not care if someone's back yard got messed up. Keep them out, and I'm sorry to say, keep the government out too. 'Enclosed is the completed Arctic Refuge Survey. Glad to have taken part in "IT"</p>
Hunting Management	No	No	<p>I think the refuge should be diligent with guides and hunters to make sure they are complying with the limits of harvest. I was surprised to hear that the limit for caribou is 5 per day. Not sure if that is true but I don't think people from Fairbanks should be able to harvest that many. I am strongly opposed to predator control. I also don't like the idea of commercial operators gaining favorable status.</p>
Hunting Management	No	No	<p>I believe the people who depend on this land the most i.e. the Native population should have first say in how the Refuge should be handled-then the visiting population. Leave it be-hunting limited and growth of the natural system encouraged. ""Thanks for sending this again. I appreciate your insistence that we participate in this survey. I'm not sure where the other one ran off to. Call if you need help ---" Re: q11a N/A; Re: q11e N/A; Re: q18 Not sure-I'm not an expert on how many people affects how much, etc.; Re: q21 She wrote in after the 1, following her response of 0 trips.</p>
Hunting Management - enforcement and compliance	Yes	No	<p>Visits by Fish and Wildlife Officers (State &Federal) seemed a bit much. I've lived in Alaska 35 years, hunted the Alaska, Chugach, Wrangell and Kenai ranges and never have I been checked as much as on this trip. F&W officers landing at the camp site in super cubs and helicopters really disrupted our camping experience.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Hunting Management - enforcement and compliance	Yes	Yes	<p>I began driving up to Galbraith Lake in 2007 and flying out to a section of the Brooks Range where I hunt Dall Sheep, Caribou, Wolf, Bear and Wolverine (when in season). It started out as a hunting trip to a "secret" location of my hunting partners. I started hunting in 2007 so this experience was deeply inspiring to me and has since become more about the experience of solitude and independence than the successful hunting of animals. The federal agents who flew into and over our camp numerous times this year were the most detracting from my experience. Although they were friendly, polite and interesting to speak with I felt the subsequent stops to "check-up" on us were overbearing. The first stop to check the license, tags etc. is completely legitimate and I encourage it. I believe the federal agents stopped by 3 times and the State Troopers stopped by once. I have no issues with the State Troopers management practices. The Federal agents though, in their numerous stops, knew I was hunting grizzly bear. Opening day their plane decided to buzz a grizzly I was stalking less than 2 miles from our camp, which was easily within eye sight for both of us. I believe they even seen me as I was in the open on a gravel bar about 500 yards from the bear. Well, obviously it spooked the bear and she moved within 250 yards from me and disappeared in willow patches that are scattered on the gravel bars. This now became a less than desirable situation for both the bear and me. Anyway, the Arctic is a beautiful and amazing area that I hope will remain for many years to come for other adventurous people to experience. I do not think that people who aren't willing to put in some work to experience the area should ever have priority in management decisions. For example, the wealthy guy who just wants to fly around in his helicopter to see the place for himself versus the guy who is willing to be dropped off in the middle of nowhere for a couple weeks and hike, hunt, fish or photograph. I would hate to be out backpacking or hunting only to see people flying around for a few hours and snooping in on nature that is occurring all around me. I enjoyed participating in this survey. Keep up the hard work you guys do and hopefully what we are all doing to help out will allow these areas to stay around for years to come. Sorry for the delay. The email slipped through and I forgot about the survey. Thank you for following up. Attached is the file with my responses. Keep up the hard work. Happy New Year!</p>
Hunting Management - enforcement and compliance	Yes	No	<p>While hunting in the area we had a private outfitter fly over us several days. The plane was flying pretty low up the rivers. Myself and my brother know that this plane was looking for game animals, to put his hunters on. This decreased our chance of success on our hunt very much. So I guess my answer to this is to stop this kind of actions of outfitters.</p>
Hunting Management - enforcement and compliance	Yes	No	<p>Enforce laws to stop the use of airplanes for locating game. A small white plane was always circling and appeared to be looking for moose. It was very angering to know they might be packing a trophy moose in this manner. There was also garbage left at our departure point from earlier groups that _____took out with us. 'Thank you very much for keeping an eye on this wonderful treasure.</p>
Hunting Management - enforcement and compliance	No	Yes	<p>On the river we were visited by law enforcement which was very intrusive. Officers wore firearms as well as having firearms in the boat. Their approach was not friendly but confrontational. The two individuals clearly appeared to be snooping around rather than being open and friendly. The individuals acted like they just graduated from some sort of police academy rather than being stewards of the area. 'Please keep this area 'forever wild'. Its environment needs to be preserved for future generations. Please emphasize that rangers should not act as law enforcers (confrontational) but rather as stewards of a very, very special environment.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Hunting Management - enforcement and compliance	No	No	<p>I have spent the last 14 years exploring the refuge as a guide and on personal trips; the place is sacred to me and represents a fine example of a last great wilderness. As a country, we are lucky to have this last vestige protected. Any kind of development especially for resource development should be banned. The refuge should be kept as a true wilderness as it is now, no developed structures, signs, bridges cabins, etc. The wildlife encounters and landscapes I have traveled through their have helped to shape who I am spiritually and have given me a connection to the land like no other. This landscape truly feels like the place where life began.</p> <p>I understand that an official presence is needed on heavily used rivers like the Kongakut, but to see refugee personal" armed and ready" took away from my experience. I can understand during hunting season, but I do not see it as necessary during the recreational season. I am fine with them having firearms with them on patrols, but do they need to be "on them".</p> <p>I believe the refuge staff & personnel are doing a good job managing this area. Any contact I have had with them has always been informative, helpful, professional and friendly. This has varied from officers on patrol, biologists, pilots, and ... whose demeanor and vision made a lasting impression on me. "Thank you for doing this!</p>
Guides /Outfitters	Yes	No	Get rid of _____ as a transporter/pilot as he has no scruples/ethics and is a crook.
Guides /Outfitters	No	No	<p>Allowing commercial operators would bring too many people into the area. Usually the groups are larger, more frequent visits and more aircraft. This would leave more obvious signs of people and have ultimately a big impact on the wildlife population. It's imperative to keep the wilderness as wilderness and limit access. 'Re: q7a In mountains it wasn't possible to camp on gravel. Re: q9b N/A Re: q11a N/A Re:</p>
Guides /Outfitters	Yes	No	<p>Limit the number of professional hunting guide services to prevent over harvest. It needs to be kept a close eye on for human impact. I have had some fantastic trips in the refuge it is by far one of my favorite places to enjoy my passion for hunting big game but its more than just the hunting, the country is so unique to hike in. I guess the word to describe it would be inspiring, rejuvenating and spiritual. I can't wait till next year.</p>
Guides /Outfitters	No	Yes	<p>Ensure that professional guides are passionate caretakers of the wilderness, as was our guide - ... 'Our guide ...is an extraordinary teacher and scholar of the wilderness. I chose the ANWR adventure to hear his story and learn from him. As a consequence, I enjoyed one of the finest "classroom" experiences of my life. As you can tell, I have great respect for ... He is the perfect prototype of what a professional guide should be: one who respects the wilderness and at the same time is awed by its magnificence. Today I received a post card stating an ANWR questionnaire was mailed to me about one week ago. I have not received it. Please email, as an attachment, or mail. I would appreciate having the opportunity to complete it.</p>
Specific Development	Yes	Yes	Very beautiful rivers and mountains. Energy exploration on Coastal Plain, not a significant issue. Keep development out of mountainous areas.
Specific Development	Yes	Yes	<p>Do NOT make it a theme park with developed facilities, trails, signage, etc., etc. Keep it the way European-Americans found it to the greatest extent possible.</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Specific Development	Yes	No	Provide ATV trail access from the Dalton Highway into the park and a trail system for hunters, campers, etc. Establish trailhead access as a maintained road so that users can access the 5 mile "no motorized vehicle" area around the Dalton Highway without violating the state laws.
Specific Development	No	Yes	If you need a bridge, put a dozen big flat stepping stones across the river.
Specific Development	No	Yes	The Refuge management should avoid building or developing sites within the Refuge and should expand the range of the Refuge. I enjoyed the Refuge for what it is, but the Refuge should be primarily for the wildlife and the natural setting. Human interaction should continue to be minimal, to the level the Refuge can sustain. I realize that support must be built up or else people will favor oil drilling or other short term uses with limited positive impact, but support can be built up without making access too easy or travel too simple. After all, this is Alaska an the Arctic. 'Here's my completed survey. Good luck with your research.
Specific Development	No	Yes	I believe the management should avoid establishing trails in the Refuge to maintain the sense of freedom, adventure and wilderness I felt while I was in the Refuge. 'Re: q6c 'including guide'; Re: q12m1 'our guide fishing!';
Specific Development	No	No	Don't over-regulate. Manage "high use" areas (if there are any). Provide more information regarding active bush pilots with experience in the refuge.
Specific Development	No	No	Forbid any activities that aren't in keeping with the original wildlife and wilderness goals of the refuge, especially commercial development and drilling. 'Thanks!
Specific Development	No	Yes	do not do anything that makes it easier for people to access the Refuge; this will by default limit those who are not willing/able to make the effort to visit... 'thanks for the opportunity of completing this survey; if you have difficulties receiving it (as i completed it on a work computer), please let me know thanks
Specific Development	No	Yes	Prohibit energy or other development in ANWR, including the 1002 area. Manage the area to maximize wilderness experiences.
Specific Development	No	Yes	Avoid over development. Do not allow it to become commercialized. I do not want designated campground or off limits areas. If necessary, restrict numbers of visitors to protect the wilderness. Protect it from exploitation by businesses. Do not allow mining or oil development. Clean-up old garbage left by previous developers (oil drums on the coast). Protect off shore waters from development too.
Specific Development	No	Yes	I have done 4 trips to the refuge. The first 3 were private month long walks and floats. The latest was the guided trip. I would suggest removing the camp on Peter's Lake. It is an obnoxious blight on the land. Removing as much modern junk like plane crashes would be a great goal. Buying out native in holdings and cleaning them would also be great. As for regulating visitor I would hate to see it happen. People that want to float will have to expect to see other groups. It is so easy to pick a line and backpack in solitude. 'Oh great - my old adobe 6.0 version would not work so tried to upgrade and hit some error. But it did manage to delete my old version before hitting the error. So now I have no adobe reader after two hours of dial up download!

Main Topic	Hunt	Guide /OF	Survey Comments
Specific Development	No	Yes	<p>I became so thoroughly enamored with the Arctic on this trip that we took another trip in October (though we did not make it officially into the refuge -- we stayed on Barter Island and in Wiseman).</p> <p>The wildlife was wonderful, but I was equally impressed with the flora. If there are areas that begin to get trampled by the number of human feet passing over them, then I would recommend establishing some trails to protect those areas. Otherwise, I think the least amount of management possible that will still protect the resource is desirable.</p>
Specific Development	No	No	<p>I've seen little impact by people in ANWR, except at the landing fields, for the most part. I have come across 4 fire rings outside of the landing fields. Access is limited by the cost of travel, guides, and remoteness. Thirty years ago I would have answered some of these questions differently. I participated in surveys in Kluane NP when they were making up their plans in the late 70's, early 80's.</p> <p>At this time, I really appreciate that very few people are in ANWR. My only contact has been on the Kongakut River and at Demarcation Bay. Access by plane is a near necessity. There is some scarring at these landing areas, this does seem reasonable under the circumstances.</p> <p>I am not in favor of any infrastructure to the ANWR, more landing fields, public use cabins, trail development, bridge construction, or signing. Leaving ANWR as it is now will not spoil the natural conditions. At some point if and when visitors increase to a level requiring management, ANWR officials will need to take action. I have seen little impact to date from the Yukon west to the Aichilik River and from Demarcation Bay south to the Sheenjek River headwaters.</p> <p>I am not in favor of bear resistant containers because they don't have enough volume to do 22-day trips without re-supply. The added weight would make a trip this length impossible unless there was a re-supply, which adds greatly to the cost. 'ANWR is an obvious jewel of the world. There are many conditions which make it so. I would say the vastness, solitude, and lack of visitors are a major reason for my feeling. I have never visited a less impacted and non-visited place in my life. Hardly a human foot track can be found. I am certainly concerned about the impact of oil exploration and the removal of oil and gas from ANWR, the coastal plain, and the Beaufort Sea. I expect it to be more a matter of when then if. That is a real shame but is mankind's way.</p>
Specific Development	No	No	<p>The refuge should avoid development and expansion of public facilities. Please keep it quiet and wild, no catering to public interests. If people need cabins and bridges, established campgrounds and trails, less hunting regulations or the need to take something from one of the last great wildernesses-these people can go anywhere else in the world. I see plenty of McDonalds, why open another one? It's an amazing wilderness; all that needs to be done is nothing. 'Re: q10k1 'Tundra is changing.' Re: q11d Respondent chose both '-2' and '0'. I left the response blank.</p>
Positive Experience	Yes	Yes	<p>My trip was fantastic. We were there the last two weeks of August. Weather was great. My buddy took a Ram and I took a beautiful griz. We saw a lot of sheep, caribou and bears. Caught lots of fish. I hope to do this trip again. 'Re: Q25 Respondent marked both 3 and 4</p>
Positive Experience	Yes	No	<p>Exciting and wonderful time. Hope to visit again.</p>
Positive Experience	No	Yes	<p>Thank you for a wonderful place. 'Re: q18 'neutral/uninformed'</p>

Main Topic	Hunt	Guide /OF	Survey Comments
Positive Experience	No	Yes	Based on my experience, as best as I can tell refuge management is doing a great job at the Arctic NWR. Any suggestions or opinions are expressed in my answers to the questions in the survey. I had an absolutely incredible experience in the refuge. I found myself emotional at the end of the trip and wishing that I could stay longer, explore more, and reach the coastal plain to experience that portion of the refuge.
Positive Experience	No	No	We had a very positive experience, although we saw more people than we expected. Having said that, the people we did meet were very interesting, shared our feelings, and added to our experience. If we had seen many more I think it might have had a negative impact.
Positive Experience	Yes	Yes	Truly awesome experience. I visited and backpack-hunted the South Slope in 1986 with my father. I remembered it with great fondness as an important time for he and I. I have visited Alaska nearly every other year since I lived there from 1983-86. The ANWR is a special place of many special places I've been...Kodiak to Khatmul to the Kongakut.
Positive Experience	Yes	No	It was a great experience to get away from people and hunt with friends.
Positive Experience	No	Yes	Our experience was perfect, keep doing what you are doing.
Positive Experience	No	Yes	I will never forget it. It was the most physical event I have ever done. Thanks for keeping Alaska, "Alaska"!!
Positive Experience	No	Yes	Re: q13g? Re: q13j Not; Re: q13o which Arctic? Re: q13q * Re: q13x Example requested. Re: q15c Not yet. Re: q15e * Re: q16u emergency; Re: q17 "commercial" crossed off and "certified" put in its place. Re: q18a - q18c Including guide.
Positive Experience	No	No	This is my 12th trip in 24 years. I have hiked some in other places and countries. ANWR is a very special place. 'Re: q11d no use; Re: q11e ?
Positive Experience	No	No	You are doing a splendid job. Keep ANWR wild.
Positive Experience	No	No	great experience 'Re: q6c 4 moms 6 kids Re: q9b N/A Re: q11d & q11e N/A
Comment about Survey	Yes	Yes	'Re: comment-Sorry I took so long to get the visitor survey back to you. Your website indicated that the study had been completed several years ago. The following responses correspond to the questions listed on the survey. Q10g,h,I I am not particularly influenced by psycho babble and am not in touch with my eco-fruit side. Q10n Is this a question? Q10q This is something we could use more of. We don't need any more dependence on the government. Q13f Fine, if they just go and study legitimate phenomena. From my experience it just leads to areas being outlandishly protected or cordoned off as so called "significant ecosystem etc." The problem is the agenda of the "scientists" doing the studies. Q13g Typical eco-fruit sentiment, (Total BS). Q13i This is a fact. It is not a belief in what the purpose of the refuge is. Q13o See Q10n. Q13u,bb Attempting to tie anything that could go on in ANWR to so called "global warming" is such a stretch it is laughable. Q14g If "studies" are bona fide and not just the dissection of somebody's feelings. Q15c More feelings? Sack Up! Q16a-k I generally support the gist of some of the items listed in 16 a-k. I do have a problem with who will decide the "require" or "establish" part. Q18 I think this is generally self limiting. Hunting groups seldom exceed four individuals. The eco-groovies are the ones that get out of control with the overall numbers. I don't think they would appreciate a limit on the number of people who can hold hands and sing Kumbayah. Q19 My wife and I have worked for the USFS in the past and I know how the agenda of the people involved can affect the "Limit", "require" and "establish" part described in 16 a-k. The personal agenda also

			<p>rears its head when funding for appropriate "scientific" studies is doled out. I will admit that I am a little concerned about the tangent of this questionnaire and the mission statement of the ALWRI. I think it would be more appropriate to have the USFS be represented by the Gifford Pinchot Research Institute. Just my opinion. My ultimate fear is the presence of a bunch of LEO yonks flying around; landing in every camp they come across and start sniffing through your stuff to determine if you're ... has been stored correctly. This would be a complete abomination. The next move would be to start charging admission and installing kiosks. Soon we would be paying a bunch of money for something that was better off with nothing. I live in California, I have seen it happen. In conclusion, I would not mind an educational list of things to do like where to camp, have fires and dispose of waste. This brochure could be provided at the flight service prior to departure to the bush. The information would be voluntary. My responses are most likely much different than the rest. You can just put me down as an "outlier" in your data. Also-Re: q8b 'There were 7 distinctly different bears observed from camp'; Re: q12c2 'departed from flight service'; Re: q12n1 'none except item k'; Re: q13g 'less than 0 (not at all important)</p>
Comment about Survey	No	Yes	Re: q9b N/A Re: q14a Depends on motorized vs. not. Re: q15a ?
Comment about Survey	No	No	Re: q15a '?' Re: q18a-q18v '?' I don't know what correct size (is); probably between 8-16; depends on what scientists find to be sustainable use-that avoids permanent cumulative damage to the ecosystem. Re: q22 possibly
Comment about Survey	No	No	Re: q12g1 'Dozen &' (I entered a value of 99)
Comment about Survey	Yes	No	I did complete and email the survey, but will do so again. I changed to a MAC computer since the last survey and I cannot save the survey with this system. If all right I will print it out and mail it. I hope this works. ... wanted to add something in the comments box, but after we saved it, we couldn't add anything else. So, it's coming without a comment.
Comment about Survey	No	Yes	I cannot find the email in my sent box. I usually delete large email messages as they fill up the server here, which has limited capacity. Please resend and I will complete again and resend to you.
Comment about Survey	No	Yes	Re: q8b We saw eight bears. Re: q12b Joined us. Re: q12c Kaktovik Re: q12f ours Re: q12j native
Comment about Survey	No	Yes	Re: q12e1 'don't know how many'; Re: q12n1 'oil drum'. sorry to make you work so hard to get my survey - could you please let me know if you have received it. Having some connection issues this morning and not sure if it went out.
Comment about Survey	No	Yes	Re: q21 '?'
Comment about Survey	No	Yes	#17 & 18-I don't feel I am qualified to answer these questions and many of the others concerning control and use of the Arctic refuge from one recreational visit. Re: q9ac Respondent crossed out 'Arctic Refuge's' and wrote in 'guides'; Re: q10 'My answers here are due to being guided and being with a group which all distract from having a more personal and adventurous experience.'; Re: q10n1 'in summer'; Re: Respondent put '?' in q12e1, q13o, q13s, q13v, q13x and q13aa, q14b, q16g and q16o-q16v.; Re: q12k1 Respondent wrote 'multiple', I recorded '999'; Re: q12n1 'camping areas'; Re: q16o-q16v 'do not know what is best for preservation of the land and wildlife.

Main Topic	Hunt	Guide /OF	Survey Comments
Comment about Survey	No	Yes	Re: q6a 'a native from Kotzebue; Re: q6c 'including guide'; Re: q6e 'last night, #10 was on Flaxman Island; Re: q9aa 'Bannerjee photo posters'; Re: q9ac 'looked at it after I decided to go'; Re: q9ai 'I expected solitude, but it wasn't my goal'; Re: q10b1 'if this includes trying to find channels to get there'; Re: q10c1 'The Canning River Delta'; Re: q10e1 'wind, changing channels'; Re: q10f1 'more uncomfortable but more adventure'; Re: q10k1 'except for oil barrels'; Re: q10q1 'except depended lots on guide'; Re: q10r1 Respondent put parentheses around the word uncertainty and wrote "adventure?"; Re: q11d Respondent underlined the words satellite phone and wrote "helped find return pick-up"; Re: q12b1 'in hotel in Kaktovik'; Re: q12g1 'about 1/day'; Re: q12g2 'mixed-kind of fun, guessing who but also distraction'; Re: q12n1 'airstrip marked at beginning of Delta'; Re: q12n2 'because so few'; Re: q15f 'the Noatak, other Arctic Refuges'; Re: q15h Underlined the 0 and wrote 'except because it is involved in controversy and misunderstanding and want to be able to talk about it intelligently'; Re: q16c 'Worked in Denali! But is it necessary here?'; Re: q16r 'if waste is a problem'.
Comment about Survey	No	Yes	1st message-Let me know if this work, had problems with saving the results from my previous survey. 2nd message-I've attached the previous file again
Comment about Survey	No	Yes	'We will need a hard copy of the survey. Our computer is too old a version to download.
Comment about Survey	No	No	'Re: q9b N/A Re: q11b ? Re: q15g ?
Comment about Survey	No	No	'Re: q11a, d & e N/A
Comment about Survey	No	No	'Re: q12g1 '?'
Comment about Survey	No	No	'Re: q10g1 Crossed out Personal growth, increased awareness. Re: q10o Crossed out A sense of humility and wrote stupid question. Re: q13g and q13p stupid questions. Re: q13bb '?'
Comment about Survey	No	No	'Thanks for sending a hard copy-my computer wouldn't cooperate with your software. Re: q11a 'Saw no other groups, just air traffic'; Re: q12n1 'trash, drums at Marsh Fork strip; Re: q16v 'Maybe a informational registry to allow groups to have a heads-up on what to expect for traffic'.
Comment about Survey	No	No	'Re: q12n footprints
Comment about Survey	No	Yes	I was interested in the choices discussing humility, a sense of insignificance and a sense of sacredness. This is the American Serengeti. I hope to see it again. But if I don't, I got to see it once, and that is what matters.
Comment about Survey	No	Yes	'The completed form is attached.
Comment about Survey	No	Yes	'I sent this out a few weeks ago. Hopefully you will get this one. Thank you for the work that you're doing.

Main Topic	Hunt	Guide /OF	Survey Comments
Comment about Survey	No	Yes	We actually didn't see the migration and most of the people on our base camp trip thought we were going to. 'Your survey was repetitious and therefore irritating. You should not have asked for personal information at the end.
Comment about Survey	No	Yes	'Here is my completed survey. Let me know if you would like additional information
Comment about Survey	No	Yes	Re: q10b1 in raft must follow river
Comment about Survey	No	Yes	I assume that my survey transferred correctly as an attachment.
Comment about Survey	No	No	Re: q13aa Not after 34 years.
Comment about Survey	No	No	Re: q11d Circled the work GPS
Comment about Survey	No	No	<p>Somewhat chagrined o see what I think is a picture of the mountains that define the west end of Atigun Gorge in this report on oil and gas potential in the Arctic:</p> <p>http://pubs.usgs.gov/fs/2008/3049/fs2008-3.pdf</p> <p>Not sure if mountains in the pic are in the Refuge, but if they are the ones I think they are, the Refuge Wilderness is either in the pic or just outside of it. USGS should not be using such pics for this purpose as it undercuts the Refuge -- again, assuming that I am right about the location of the mountains in the picture. 'Thank you for the work you do.</p>
Comment about Survey	No	No	Re: q9b 'not hunting'
Comment about Survey	No	No	Re: q9aa books; Re: q11a Underlined satellite phone; Re: q12a1 saw planes, helicopters, hunters, garbage; Re: q12n1 mostly garbage; Re: q15 Draw a line through question and wrote 'This is silly!' Re: q16e 'see above'; Re: q16k 'when available' underlined; Re: q16 r see requirement for removing waste. Re: q17 perhaps lottery system; Re: q18 This is a guess. Those with ecological management background can assess impacts better.
Comment about Survey	No	No	Sorry for the delay in getting this back to you.
Comment about Survey	No	No	Re: q9ae 'on first visit to park in 2000'; Re: q12g1 '?'; Re: q16g 'Is it needed?'; Re: q22 'unsure'
Comment about Survey	No	No	Re: "Dear Friend, Sorry it took me so long to respond. Thanks, for not giving up on me".; Re: q12n2 Both '-2' and '0' were circled. I didn't record either one.; Re: q13j Both '2' and '3' were circled. I didn't record either one.; Re: q17 Non-profit groups.
Comment about Survey	No	No	Re: q9b N/A Re: q10r N/A

Main Topic	Hunt	Guide /OF	Survey Comments
Other	No	No	I had no idea mosquitoes could be so thick. We had a screen tent, which helped. I would have liked to have a cup with a lid. I had lots of mosquitoes in my coffee, cocoa and food. Interestingly, I received another survey about ANWR shortly after the trip. I thought it was the one our pilot said we'd get. However, it was apparent by the way the questions were stated that the group had an agenda. I didn't complete the survey. It was misleading to get it, and I am suspicious that my name and address was released. Otherwise, it is a strange coincidence. Re: q9b Did not hunt. Re: q10k2 oil barrels on the land Re: q102m-q102r This half of the question is unclear. Re: q11a N/A Re: q11c Bad Karma Re: q11e N/A Re: q12f For our group Re: q12g Several days 1 or 2 Re: q12n empty oil barrels
Other	No	Yes	I would like to be in contact with the rangers, hopefully to obtain some more photographs of the migrating caribou herds, so that I can make some paintings of them. I have more information about my project. Please email me at: ...

Comments about the Electronic Survey Methodology

- We will need a hard copy of the survey. Our computer is too old a version to download.
- I've just tried to send this via Adobe but I'm not sure that worked so I'm going to attach the copy I saved. Sorry you had to send a post card reminder but it worked!
- I have an Apple and the pdf doesn't seem to work. I can't fill the boxes in. Any suggestions?
- I did indeed fill out a survey and email it back to you. It did not have the survey number of ... on it as I dumped the survey and deleted the mail before I realized it had that needed number. I explained that at the bottom of the survey I sent in. I do not want to fill out another, so you'll have to find that one or do with out my response. Thank you.
- I'm sorry but this was the 2nd time that I filled out the questionnaire. The submit button just did not work. I really am short on time and can't redo.
- *1st message*-I did the survey about a month ago. I don't know why you didn't receive it. *2nd message*-I searched my computer for it but couldn't find it. It was frustrating to take a lot of time to fill it out just to have it vanish in the ether.
- Attached is my completed survey. I did try to send a report a few months ago. I hope this works. Good luck in finding the balance between allowing accesses and limiting the impact of visitors such as myself. **Note from research team: This survey was not received.*
- Oh great - my old adobe 6.0 version would not work so tried to upgrade and hit some error. But it did manage to delete my old version before hitting the error. So now I have no adobe reader after two hours of dial up download!
- Please find attached a completed survey. **Note from research team: This survey was not received.*
- Please let me know if you get this survey in a completed form. Since I don't have outlook express, it was difficult to figure out how to send you the completed form. Thanks. I am very concerned about the future and management of the refuge, so I very much want to be part of the survey. In general, most of the questions seemed good, but there were some that couldn't be answered so simply.
- I am attaching my response to your survey. I am afraid I used my Macs 'preview' program to fill out your form and could (for some reason) not enter my 5 digit identification number. It would also not allow me to save my work so I cannot save and re-open in Adobe reader and add the number. I hope you can manage to add it at your end.

- I hope this process has worked. I am not certain that the contents can be read. Please let me know.
- I get so many requests for surveys, and I don't have Adobe Reader and don't want to take time to download. This is my fourth time in the Refuge. I love its pristine wilderness and beauty, and have been working for its protection since the 1980s. I am also a member of the Alaska Wilderness League. My Sierra Club raft trip on the Kongakut was terrific. I don't know what else I can say. I do hope we can keep oil drilling out, as well as protect native ways of life (Gwichin). Cordially and with appreciation for your work, ...
- Guys, I had problems doing this electronically so I printed it and sent it in the mail.
- Sorry to make you work so hard to get my survey - could you please let me know if you have received it. Having some connection issues this morning and not sure if it went out.
- Not sure if you got this from my submit click, so here you go just in case.
- Dear Aldo Leopold Arctic Refuge Survey team: Adobe Acrobat crashed twice, deep into typing my responses. I have the most up to date version of Mac OS and Adobe software. Unfortunately I do not have the time to respond to the survey yet another time. This is running on a Macintosh computer, running Adobe 8.1.2. I hope you find this bug report helpful.
- Here is my completed survey. **Note from research team: This survey was not received.*
- *First message:* I did complete and email the survey, but will do so again. I changed to a MAC computer since the last survey and I cannot save the survey with this system. If all right I will print it out and mail it.
Second message: I hope this works. ...wanted to add something in the comments box, but after we saved it, we couldn't add anything else. So, it's coming without a comment.
- I would be happy to complete the survey, but I do not have Adobe 8 and the download time on my computer is prohibitively slow. Can you send a paper copy to ...
- I remember having sent this once, electronically. I'll re-do it and send it by snail mail. My # is The Adobe form is misbehaving so I'll hand "crank" you a version.
- I'm sorry to hear that you have not received my completed survey. I am currently down here in Antarctica and have tried to complete the survey on two occasions. The infrastructure for online communications is generally good; however some programs here are unacceptable to the NSF, for "security reasons". I will be off the ice in about a week and will try to complete the survey once more from New Zealand. Sorry any delays, as they say down here..."It's a harsh continent!"